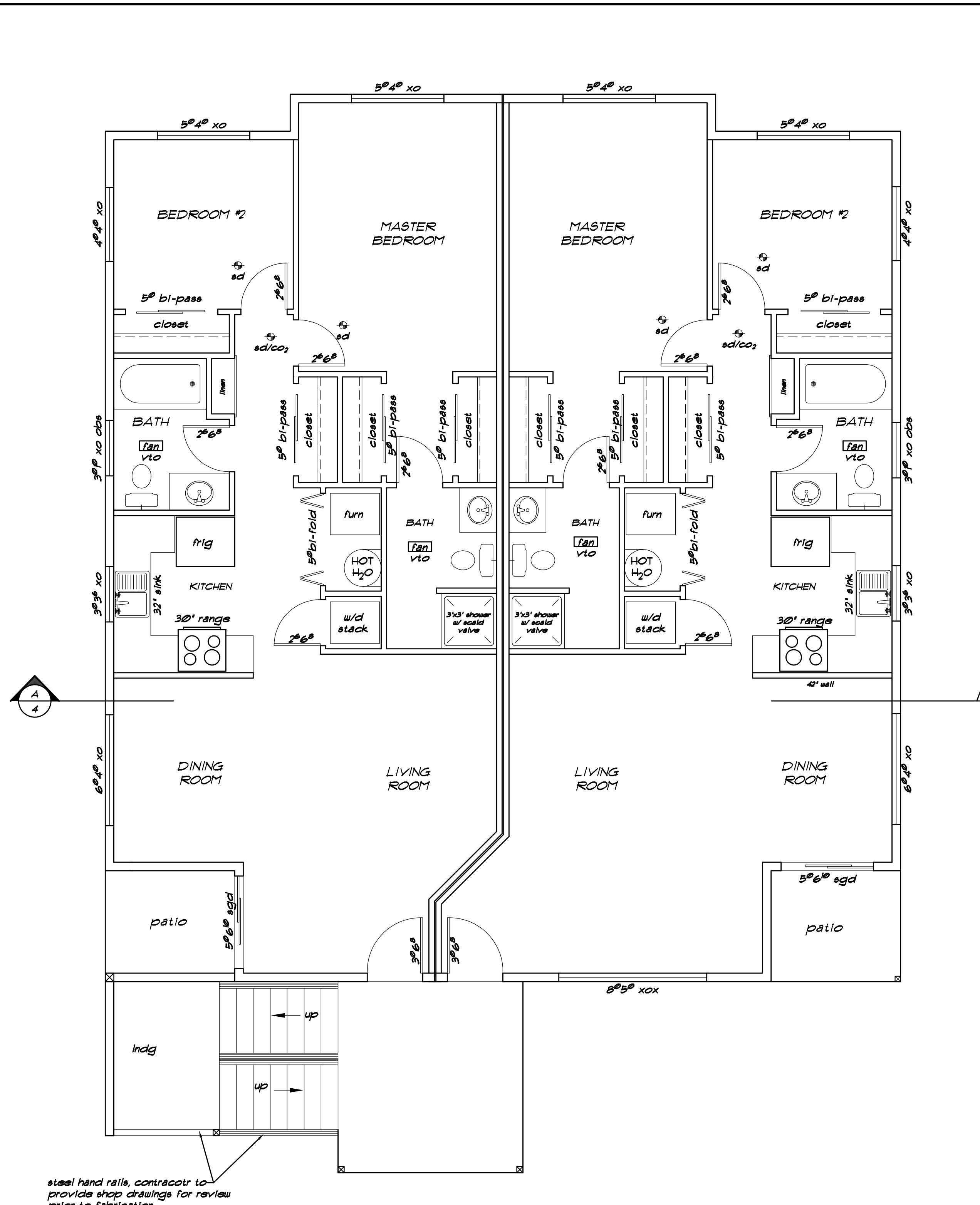


# Gary West Living Trust 6-Plex

CODE INFORMATION	VICINITY MAP	GENERAL NOTES	SPECIAL INSPECTION																																																																																																																																																																																																																									
<p>Project shall comply with the current editions of the following resources:</p> <ol style="list-style-type: none"> <li>2014 Oregon Structural Specialty Code (OSSC)</li> <li>2014 Oregon Plumbing Specialty Code (OPSC)</li> <li>2014 Oregon Mechanical Specialty Code (OMSC)</li> <li>2014 Oregon Specialty Electric Code (OSEC)</li> <li>2014 Oregon Energy Efficiency Specialty Code (OEESC)</li> <li>2014 Oregon Fire Code</li> </ol> <p>Type of construction VB - sprinkled per NFPA 13R</p> <p>Occupancy per 2014 OSSC R2</p> <p>Allowable area: 20529 sf.</p> <p>Actual Area: 2024 sf. each floor 3-story</p> <p>Building height:</p> <ul style="list-style-type: none"> <li>Allowable = 4 stories, 65 ft. (20'-'0" increase for sprinklers per Sect. 504.)</li> <li>Actual = 3 stories, 37'-9" ft. (from finished grade to ridge)</li> </ul> <p>Energy requirements:</p> <table border="0"> <tr> <td>wall</td> <td>R-21</td> </tr> <tr> <td>flat ceiling</td> <td>R-18</td> </tr> <tr> <td>Floor (ceil spaces)</td> <td>R-30</td> </tr> <tr> <td>windows</td> <td>Vinyl low-e, u=0.43, SHGC = 0.32</td> </tr> <tr> <td>doors</td> <td>u=0.70 max</td> </tr> </table>	wall	R-21	flat ceiling	R-18	Floor (ceil spaces)	R-30	windows	Vinyl low-e, u=0.43, SHGC = 0.32	doors	u=0.70 max	<p><b>SITE</b></p>	<p>All construction shall comply with 2014 OSSC.</p> <ol style="list-style-type: none"> <li>All construction shall be done in accordance with these plans.</li> <li>All framing members have been designed for installed loading conditions only. The contractor shall handle, store, and install framing members in a manner not to damage or over stress these members.</li> <li>Any substitutions for structural members, hardware or details shall be reviewed by the engineer. Such review will be billed on a time and materials basis to the general contractor with no guarantee that the substitution will be allowed.</li> <li>Safe-T Note: It is the contractors responsibility to comply with the pertinent sections, as they apply to the project, of the 'construction safety orders' issued by the State of Oregon latest edition, and all OSHA requirements.</li> <li>The owner and the structural engineer do not accept any responsibility for the contractor's failure to comply with these requirements.</li> <li>The contractor shall be responsible for adequate design and construction of all forms and shoring required.</li> <li>The contractor shall notify the engineer where a conflict or discrepancy occurs between the drawings and any other portion of the contract documents or existing field conditions. Such notification shall be given in due time so as not to affect the construction schedule.</li> <li>The contractor shall be responsible to clean and/or maintain existing public streets of soil, or other debris deposited by construction operations and repair all streets and utilities damaged by construction operations in a timely manner to avoid inconveniences or hazards to the public.</li> <li>General contractor to verify all dimensions prior to construction. In the event of conflicts or changes between details or between the plans, notify the engineer immediately.</li> <li>Install all manufactured items, materials and equipment in strict accordance with the manufacturer's specifications, unless otherwise specifically noted and approved by the engineer.</li> <li>Do not scale drawings, contact the engineer for any dimensions not shown.</li> <li>These drawings are not complete until reviewed and accepted by local building officials and signed by the owner and the engineer.</li> <li>The contractor shall obtain all applicable permits prior to beginning construction.</li> <li>Unless otherwise noted, all dimensions are to face of stud, rough concrete surface.</li> <li>The general contractor is responsible for all demolition and construction methods, techniques, sequencing, and safety required for the work.</li> <li>The general contractor is responsible for the design and general construction of all erection bracing, form work, and temporary shoring required for the work.</li> <li>It is the responsibility of every contractor to insure work, details, and assemblies required for a complete installation, whether specifically detailed in these drawings or not, are completed.</li> <li>The general contractor shall verify and be responsible for all mechanical, electrical, and plumbing (mep) conditions at the site and shall coordinate installation with all required permits and coordinate installation with real property owner.</li> </ol> <p><b>DESIGN CRITERIA</b></p> <p><b>DESIGN LOADS PER 2014 OSSC:</b></p> <table border="0"> <tr> <td>Floor Loads</td> <td>40 PSF</td> </tr> <tr> <td>Roof Loads:</td> <td></td> </tr> <tr> <td>Roof - Dead</td> <td>15 psf</td> </tr> <tr> <td>Roof - Live</td> <td>See Snow Loads</td> </tr> </table> <p><b>1603.3 - Snow Loads:</b></p> <table border="0"> <tr> <td>Ground Snow Load, Pg</td> <td>25 psf</td> </tr> <tr> <td>Flat-roof Snow Load, Pf</td> <td>Use 25 Psf Min.</td> </tr> <tr> <td>Snow Exposure Factor, Ce</td> <td>1.0</td> </tr> <tr> <td>Snow Load Importance Factor, Is</td> <td>1.0</td> </tr> <tr> <td>Thermal Factor, Ct</td> <td>1.0</td> </tr> </table> <p><b>Wind Design Criteria:</b></p> <table border="0"> <tr> <td>Basic Wind Speed (100 yr, 3-second Gust)</td> <td>120 mph</td> </tr> <tr> <td>Wind Importance Factor, Iw</td> <td>1.0</td> </tr> <tr> <td>Wind Exposure</td> <td>Exposure B</td> </tr> </table> <p><b>Earthquake Design Criteria:</b></p> <table border="0"> <tr> <td>S seismic importance factor, Is</td> <td>1.0</td> </tr> <tr> <td>Occupancy Category</td> <td>Group II</td> </tr> <tr> <td>Spectral Acceleration, Sa</td> <td>0.019</td> </tr> <tr> <td>Spectral Acceleration, S1</td> <td>0.335</td> </tr> <tr> <td>Site Class</td> <td>Site Class D</td> </tr> <tr> <td>Spectral Response Coefficient, S Da</td> <td>0.538</td> </tr> <tr> <td>Spectral Response Coefficient, S Di</td> <td>0.386</td> </tr> <tr> <td>S seismic Design Category</td> <td>Category D</td> </tr> <tr> <td>Design Base Shear</td> <td>V = Csw</td> </tr> <tr> <td>S seismic Response Coefficient(s), Cs</td> <td>0.828G Working Stress</td> </tr> <tr> <td>Response Modification Factor(s), R</td> <td>6.5</td> </tr> </table>	Floor Loads	40 PSF	Roof Loads:		Roof - Dead	15 psf	Roof - Live	See Snow Loads	Ground Snow Load, Pg	25 psf	Flat-roof Snow Load, Pf	Use 25 Psf Min.	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All finishes, door types, window types, plumbing and lighting fixtures must comply with the minimum guidelines found in these documents and all pertaining codes. But it is the contractor responsibility to coordinate these items with the owner.</p> <p>The electrical, mechanical, and plumbing plans are the responsibility of the individual sub-contractors. Structural Integrity, LLC does not accept or assume any responsibility for the technical information found on said documents. The engineer record will review said documents to insure the stability of the structure is not compromised. All work is to comply with the appropriate codes.</p> <p><b>ABBREVIATIONS</b></p> <table border="0"> <tr> <td>ab</td><td>anchor bolt</td><td>ea</td><td>each</td></tr> <tr> <td>ac</td><td>asphaltic concrete</td><td>elev</td><td>elevation</td></tr> <tr> <td>add'l</td><td>additional</td><td>ext</td><td>existing</td></tr> <tr> <td>arch</td><td>architectural</td><td>(e)</td><td>existing</td></tr> <tr> <td>alt</td><td>alternate</td><td>exp</td><td>expansion</td></tr> <tr> <td>bp</td><td>base plate</td><td>fin</td><td>foundation</td></tr> <tr> <td>bldg</td><td>building</td><td>fin</td><td>finish</td></tr> <tr> <td>bm</td><td>beam</td><td>flr</td><td>floor</td></tr> <tr> <td>brng</td><td>bearing</td><td>ft</td><td>foot or feet</td></tr> <tr> <td>bot</td><td>bottom</td><td>fg</td><td>footing</td></tr> <tr> <td>brcg</td><td>bracing</td><td>ga</td><td>gauge</td></tr> <tr> <td>blk</td><td>block</td><td>galv</td><td>galvanized</td></tr> <tr> <td>cl</td><td>control joint</td><td>horz</td><td>horizontal</td></tr> <tr> <td>clr</td><td>clear</td><td>ht</td><td>height</td></tr> <tr> <td>col</td><td>column</td><td>in</td><td>inch or inches</td></tr> <tr> <td>com</td><td>connect</td><td>cont'd</td><td>continued</td></tr> <tr> <td>cont</td><td>continuous</td><td>detail</td><td>detail</td></tr> <tr> <td>cont'd</td><td>continuity</td><td>diam</td><td>diameter</td></tr> <tr> <td>det</td><td>continued</td><td>dim</td><td>dimension</td></tr> <tr> <td>dis,</td><td>detail</td><td>psd</td><td>reinforced</td></tr> <tr> <td>dim</td><td>diameter</td><td>req'd</td><td>required</td></tr> <tr> <td>lbs</td><td>pounds</td><td>sched</td><td>schedule</td></tr> <tr> <td>max</td><td>maximum</td><td>shd</td><td>sheet</td></tr> <tr> <td>mb</td><td>machine bolt</td><td>sim</td><td>similar</td></tr> <tr> <td>mazz</td><td>mezzanine</td><td>sect</td><td>section</td></tr> <tr> <td>min</td><td>minimum</td><td>sq</td><td>square</td></tr> <tr> <td>misc</td><td>miscellaneous</td><td>sq ft</td><td>square feet</td></tr> <tr> <td></td><td></td><td>std</td><td>standard</td></tr> <tr> <td></td><td></td><td>symm</td><td>symmetrical</td></tr> <tr> <td>no or *</td><td>number</td><td>ts</td><td>tube steel</td></tr> <tr> <td>nom</td><td>nominal</td><td>typ</td><td>typical</td></tr> <tr> <td>nts</td><td>not to scale</td><td>uno</td><td>unless noted otherwise</td></tr> <tr> <td>oc</td><td>on centers</td><td>vert</td><td>vertical</td></tr> <tr> <td>op</td><td>opposite hand</td><td>w or w/</td><td>with</td></tr> <tr> <td>opp</td><td>opposite</td><td>w/o</td><td>without</td></tr> <tr> <td>pt</td><td>plate</td><td>wt</td><td>weight</td></tr> <tr> <td>psd</td><td>pressure treated</td><td>w/wf</td><td>welded wire fabric</td></tr> </table> <p><b>SHEET INDEX</b></p> <table border="0"> <tr> <td>1 Title Sheet</td> <td>81 Structural Notes</td> </tr> <tr> <td>2 Floor Plans</td> <td>82 Standard Details</td> </tr> <tr> <td>3 Elevations</td> <td>83 Foundation Plan and Details</td> </tr> <tr> <td>4 Building Section, Wall Sections</td> <td>84 Floor Framing Plan &amp; Details</td> </tr> <tr> <td></td> <td>85 Roof Framing Plan &amp; Details</td> </tr> <tr> <td></td> <td>86 Lateral Plans</td> </tr> </table>	ab	anchor bolt	ea	each	ac	asphaltic concrete	elev	elevation	add'l	additional	ext	existing	arch	architectural	(e)	existing	alt	alternate	exp	expansion	bp	base plate	fin	foundation	bldg	building	fin	finish	bm	beam	flr	floor	brng	bearing	ft	foot or feet	bot	bottom	fg	footing	brcg	bracing	ga	gauge	blk	block	galv	galvanized	cl	control joint	horz	horizontal	clr	clear	ht	height	col	column	in	inch or inches	com	connect	cont'd	continued	cont	continuous	detail	detail	cont'd	continuity	diam	diameter	det	continued	dim	dimension	dis,	detail	psd	reinforced	dim	diameter	req'd	required	lbs	pounds	sched	schedule	max	maximum	shd	sheet	mb	machine bolt	sim	similar	mazz	mezzanine	sect	section	min	minimum	sq	square	misc	miscellaneous	sq ft	square feet			std	standard			symm	symmetrical	no or *	number	ts	tube steel	nom	nominal	typ	typical	nts	not to scale	uno	unless noted otherwise	oc	on centers	vert	vertical	op	opposite hand	w or w/	with	opp	opposite	w/o	without	pt	plate	wt	weight	psd	pressure treated	w/wf	welded wire fabric	1 Title Sheet	81 Structural Notes	2 Floor Plans	82 Standard Details	3 Elevations	83 Foundation Plan and Details	4 Building Section, Wall Sections	84 Floor Framing Plan & Details		85 Roof Framing Plan & Details		86 Lateral Plans	<p>REGISTERED PROFESSIONAL ENGINEER 50521PE JAN 14, 2013 SHANE W. 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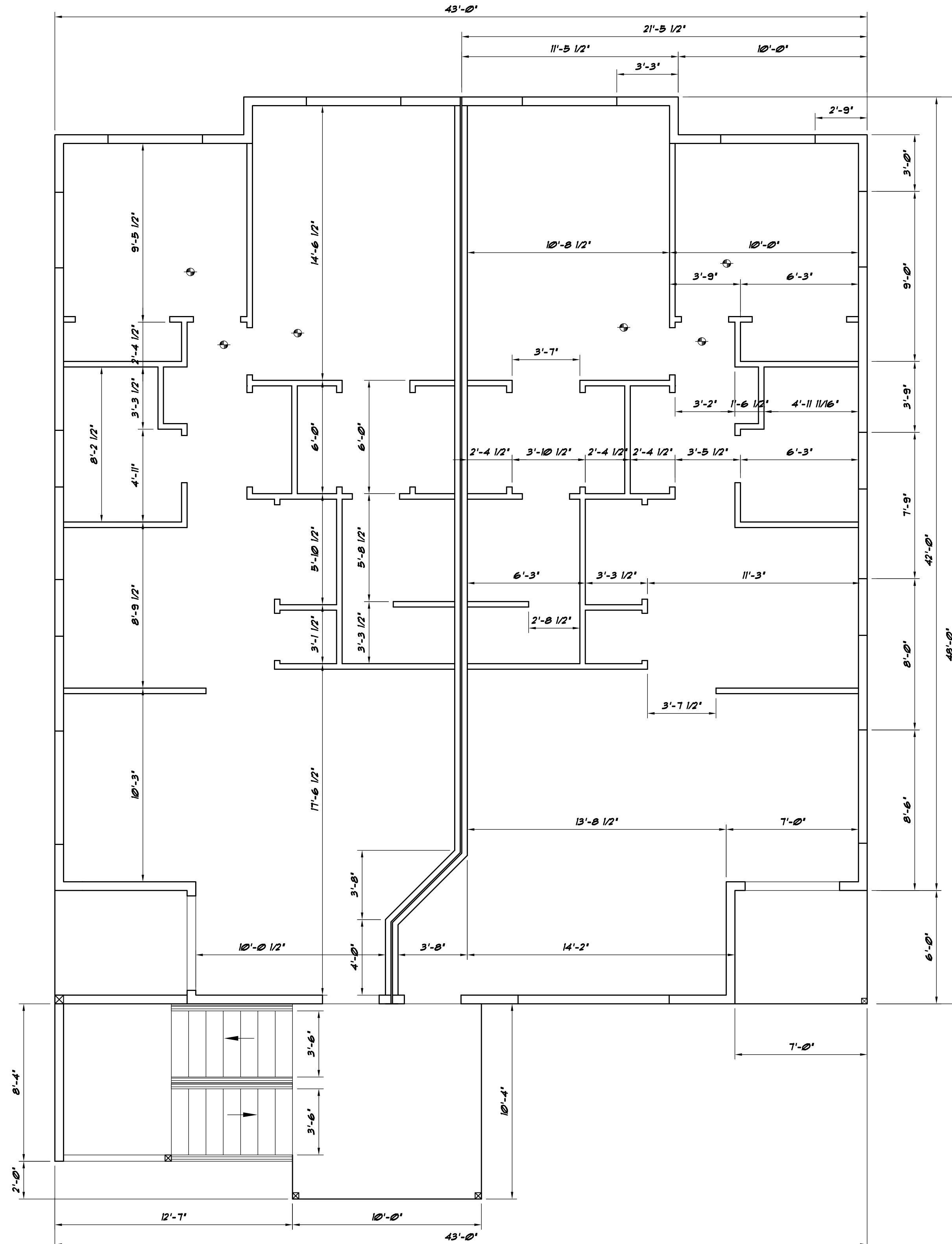


#### GENERAL NOTES

- All interior partitions are 2x4 @ 16" o.c., unless otherwise noted.
- Interior wall liner is 1/2" gypsum wallboard typical. Greenboard is used behind plumbing fixtures from floor level to 4' above floor level and throughout tub and shower areas.
- All construction shall conform to local codes and ordinances.
- Details and notes shown on this sheet are typical and shall apply unless otherwise shown or noted. Details on construction of fully custom shall be of the same nature as those shown for similar conditions. The contractor shall be responsible for verifying all dimensions, elevations, property lines and other related items on this job.
- Bath and laundry rooms require operable windows equal to 1/20th of the floor area with a minimum 15 sq. ft. or mechanical ventilation.
- All bedrooms shall have one exterior door or operable window with a sill height not more than 44" above the floor w/ minimum net clear opening dimensions of 28w x 22d and 5.7 sq. ft. net clear area.
- Install smoke detectors in each sleeping room, in immediate vicinity outside sleeping areas, and on each story including basements. All detectors located outside sleeping areas shall be interconnected such that actuation of one alarm will activate these alarms. Provide primary power from building wiring with battery backup.
- Provide safety glazing where nearest vertical edge of fixed or operable glazing is within a 24° arc of the closed door.
- Provide attic access into all attic spaces over 30 sq. ft. and at least 30" of headroom. Access door is 32x36".
- Provide Crawlspace access minimum 18x24", coordinate size with mechanical contractor and location with owner.

#### KEY NOTES

- |                    |   |
|--------------------|---|
| ed                 | smoke detector, see code notes sheet 1                              |
| ed/CO <sub>2</sub> | smoke detector and CO <sub>2</sub> detector, see code notes sheet 1 |



EXPIRES: 12-31-2017

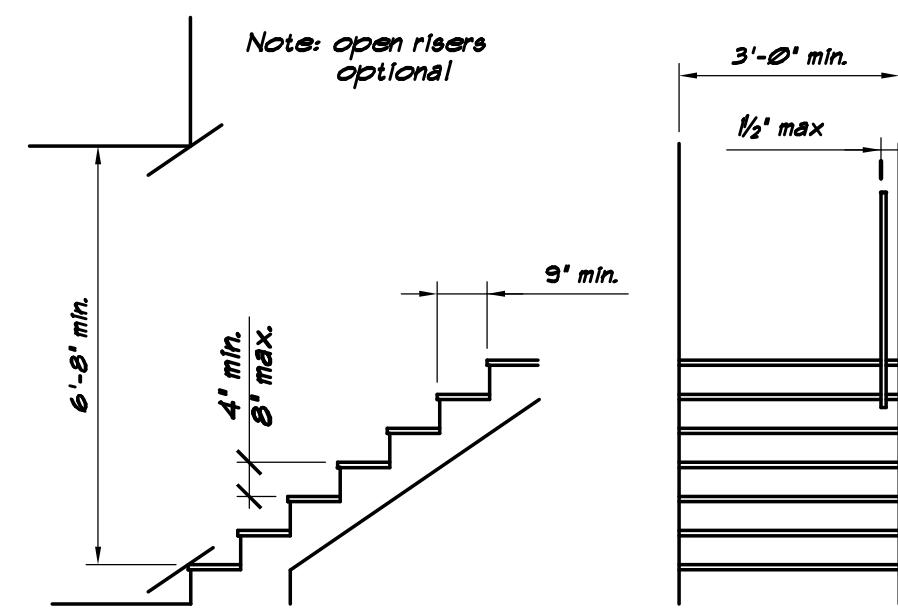
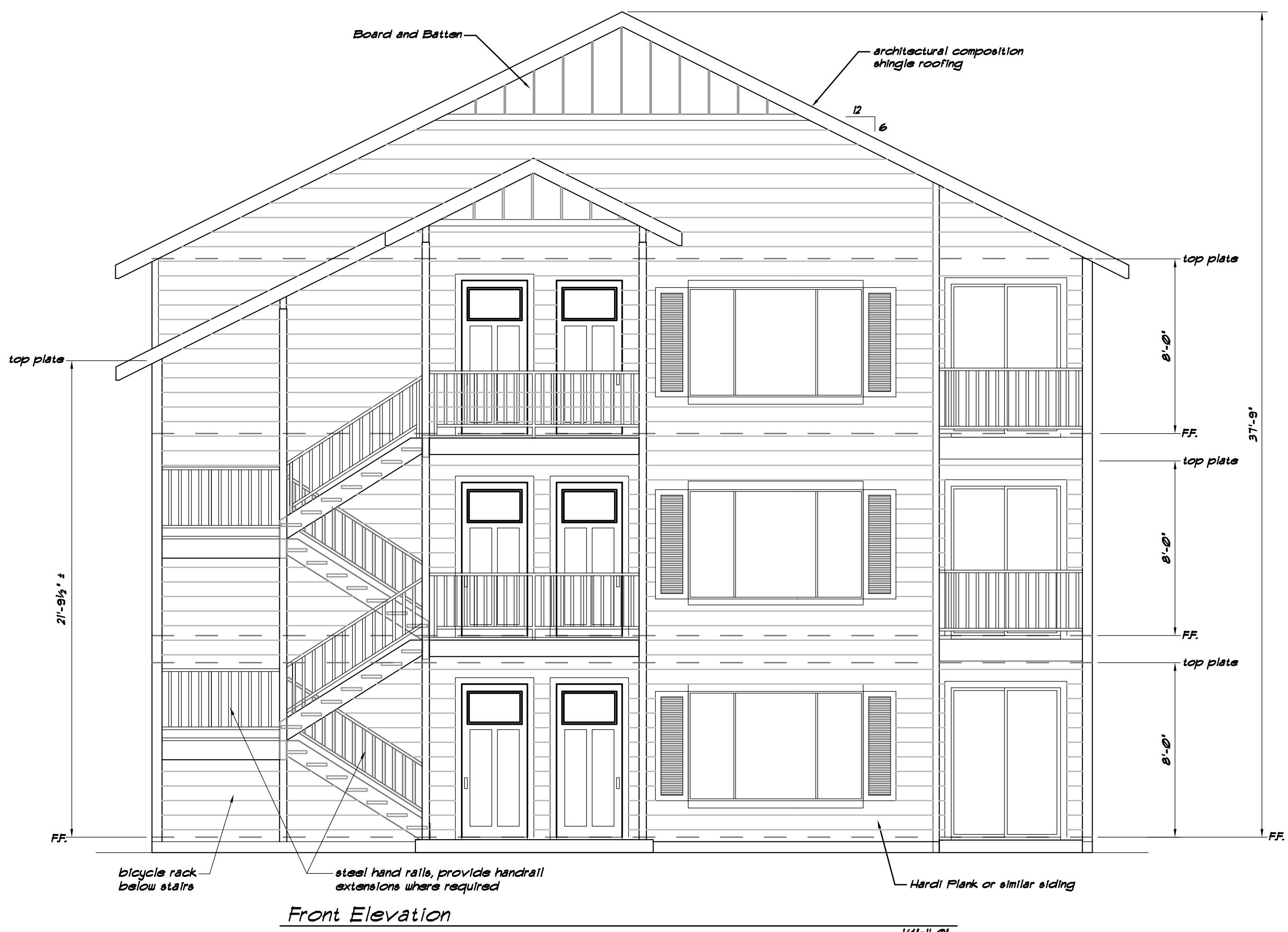
This document and its tables and designs incorporated herein are the sole property of Structural Integrity, LLC and is not to be used in whole or part, for any other project without the written authorization of Structural Integrity, LLC.

**STRUCTURAL INTEGRITY, LLC**  
724 MAIN STREET, SUITE 214  
KLAMATH FALLS, OR 97601  
541.264.2801

DRAWN DATE: 7/14/16  
Gary West Living Trust  
E-Plex  
249 Hyatt Lane  
Central Point, OR

Floor Plans

JOB NUMBER: 16090 SHEET NO. 2 OF 10



DETAIL STAIRS

RESIDENTIAL STAIR DETAIL

SCALE: nts

**STAIR & GUARD RAILING SPECIFICATIONS**

General: when risers are closed treads may have a uniform projection not to exceed 1-1/2" to 12". The greatest rise height with any flight shall not exceed the smallest by more than 3/8" stairways shall not be less than 3' in unobstructed, and the bedroom rise & run shall conform to stair detail shown. Handrails may project from each side of stairway a distance of 3-1/2" into the required width.

The radius of curvature at the leading edge of tread to be 9/16" min. a nosing not less than 3/4" (19 mm) but not more than 1 1/4" (32 mm) shall be provided on straight flights of solid treads, except where shall be sloped horizontally from the leading edge of the tread above at an angle of not more than 30° from the horizontal.

Escalators: nosing is not required where the tread depth is a min of 10" (254 mm)

Handrails: handrails having a min height of 36" & a max height of 38", respectively measured vertically from the nosing of the treads shall be provided on all flights of stairs having one or more risers. Spiral stairways shall have the required handrail located on the inside radius. All required handrails shall be continuous the length of the stairs. Ends shall be returned or otherwise terminated so as to fit into the terminal's stellar space. The hand grip portion of the handrails shall not be more than 2-5/8" wide & no less than 1-1/4" in cross-sectional dimension, or the shape shall provide an equivalent gripping surface. The hand grip portion of handrails shall have a smooth surface with no sharp corners or razor edges.

Required guardrails on open sides of stairways, raised floor areas, balconies & porches shall have intermediate rails or ornamental closures which will not allow passage of an object 4" x 4" inches in diameter. Horizontal spacings max 6" horizontal spacing between the vertical members in required guardrails shall be a max of 4" on guardrails & 5" on the open sides of stairways at the farthest point between the members.

Guardrails: irregular openings formed by the floor tread & bottom rail of a guardrail at the open side of a stairway may be of such a size that a sphere 6" in diameter cannot pass through.

Illumination: automatic continuous or activation is not required for exterior stairs, controls for interior stairs shall be located at the top & bottom of the stairway.

Handrails projecting from the wall shall have a space of not less than 1-1/2" between the wall and the handrail.

Guardrails on porches or raised floor surfaces located more than 30° above the floor or grade below shall have guardrails not less than 36" in height.

Open sides of stairways with a total rise of more than 30° above the floor or grade below shall have guardrails not less than 34" in height measured vertically from the nosing of the treads.

Required guardrails on open sides of stairways, raised floor areas, balconies & porches shall have intermediate rails or ornamental closures which will not allow passage of an object 4" x 4" inches in diameter. Horizontal spacings max 6" horizontal spacing between the vertical members in required guardrails shall be a max of 4" on guardrails & 5" on the open sides of stairways at the farthest point between the members.

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Right Elevation



Left Elevation



Rear Elevation



EXPIRES: 12-31-2017

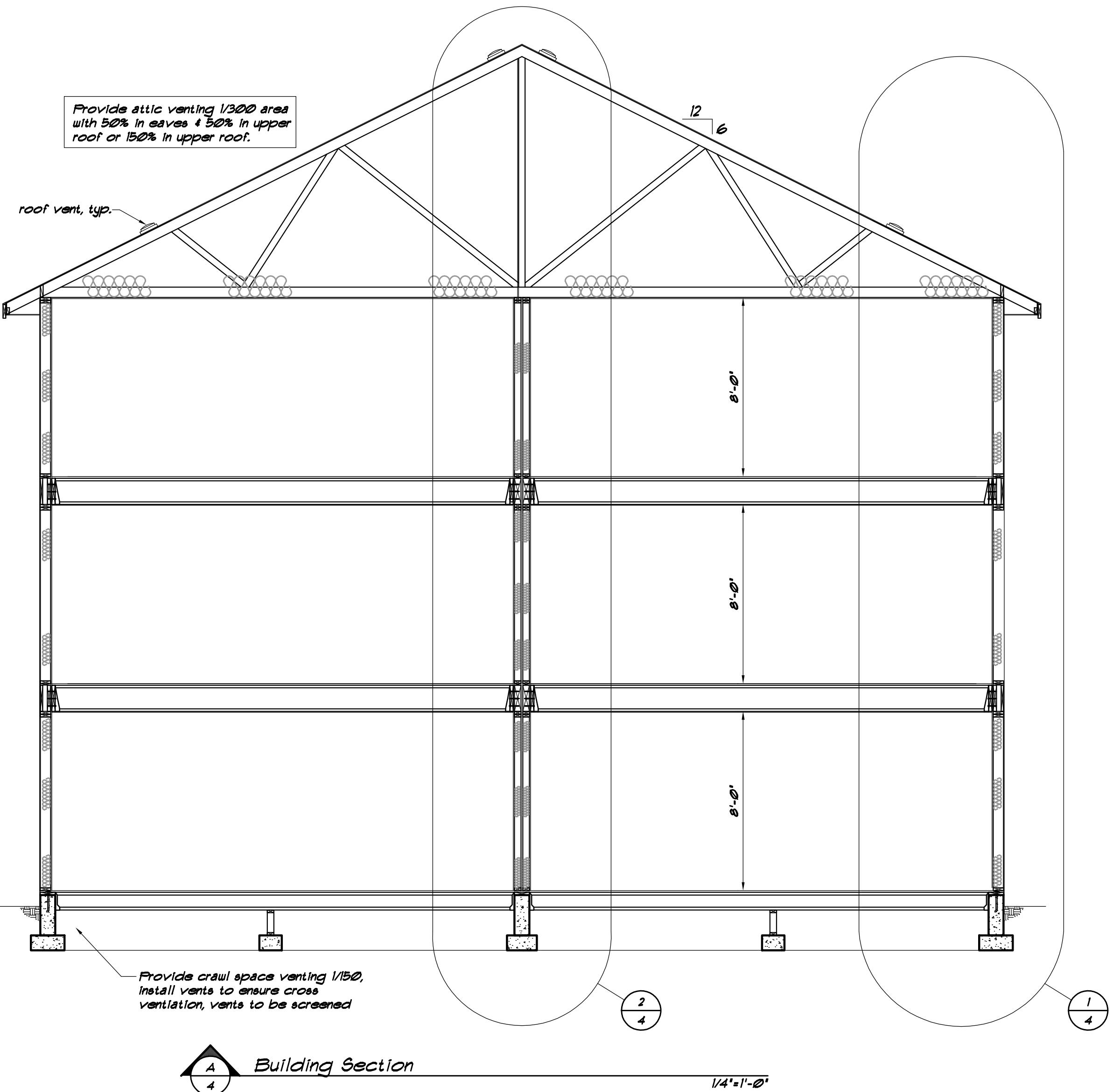
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**STRUCTURAL INTEGRITY, LLC**  
724 Main Street, Suite 214  
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541.224.0201

DRAWN DATE: 7/14/16  
Gary West Living Trust  
6-Plex  
249 Hyatt Lane  
Central Point, OR

ELEVATIONS

JOB NUMBER: 16090  
SHEET NO. 3  
3 OF 10

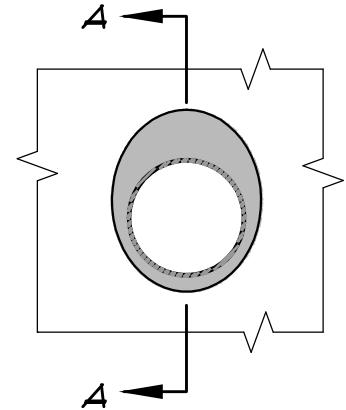


**Building Section**

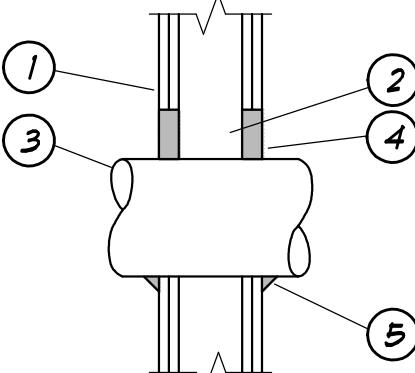
**UICUL system no. U-1-1054  
METAL PIPE THROUGH 1-HR or 2-HR GYPSUM WALL ASSEMBLY**

F-rating = 1-hr or 2-hr  
T-rating = 0-hr  
L-rating at ambient = less than 1 chn/sq ft  
L-rating at 400°F = 4 chn/sq ft

**FRONT VIEW**



**SECTION A-A**



**Design No. - Intertek Labs - BTCAUA 60-01 (LFB/AUA-60-01)**  
1-Hour Fire Rating from Both Sides of Wall

Bearing Wall - maximum loading of 2,45 lbs. per stud

Nominal 2" x 6" framing, spaced 16" o.c. min, with two top framing plates and one bottom plate. Mineral wool insulation, nominal 28 pcf 5½" thick, pressure fit in the cavities between studs.

Minimum 7/16" category LP FlameBlock with Pyrotite exterior treatment facing the exterior, fastened to studs with minimum 1½" led nails, spaced 6" o.c. on perimeter and 12" in the field. Horizontal joints are to be staggered with those of interior GUB. Code-compliant building wrap installed per manufacturer's instructions. Wood, wood composite, fiber cement, stucco or steel exterior facing options per Intertek listing, installed per manufacturers instructions.

Any classified 5/8" Type X GUB, applied vertically and interior: nailed to studs with minimum 1½" drywall nails or code-compliant screws, spaced 8" o.c. Wallboard joints must be covered with tape and joint compound, and fastener heads covered with joint compound.

5/8" type 'x' gypsum board, joints and nail head taped and covered w/ joint compound

2x6 studs • 12" o.c. • first floor wall, 16" o.c. • 2nd and 3rd floor walls

1/16" LP FlameBlock w/ pyrotite surface facing out  
fiber cement board lap siding over TVEK

**MATERIALS:**

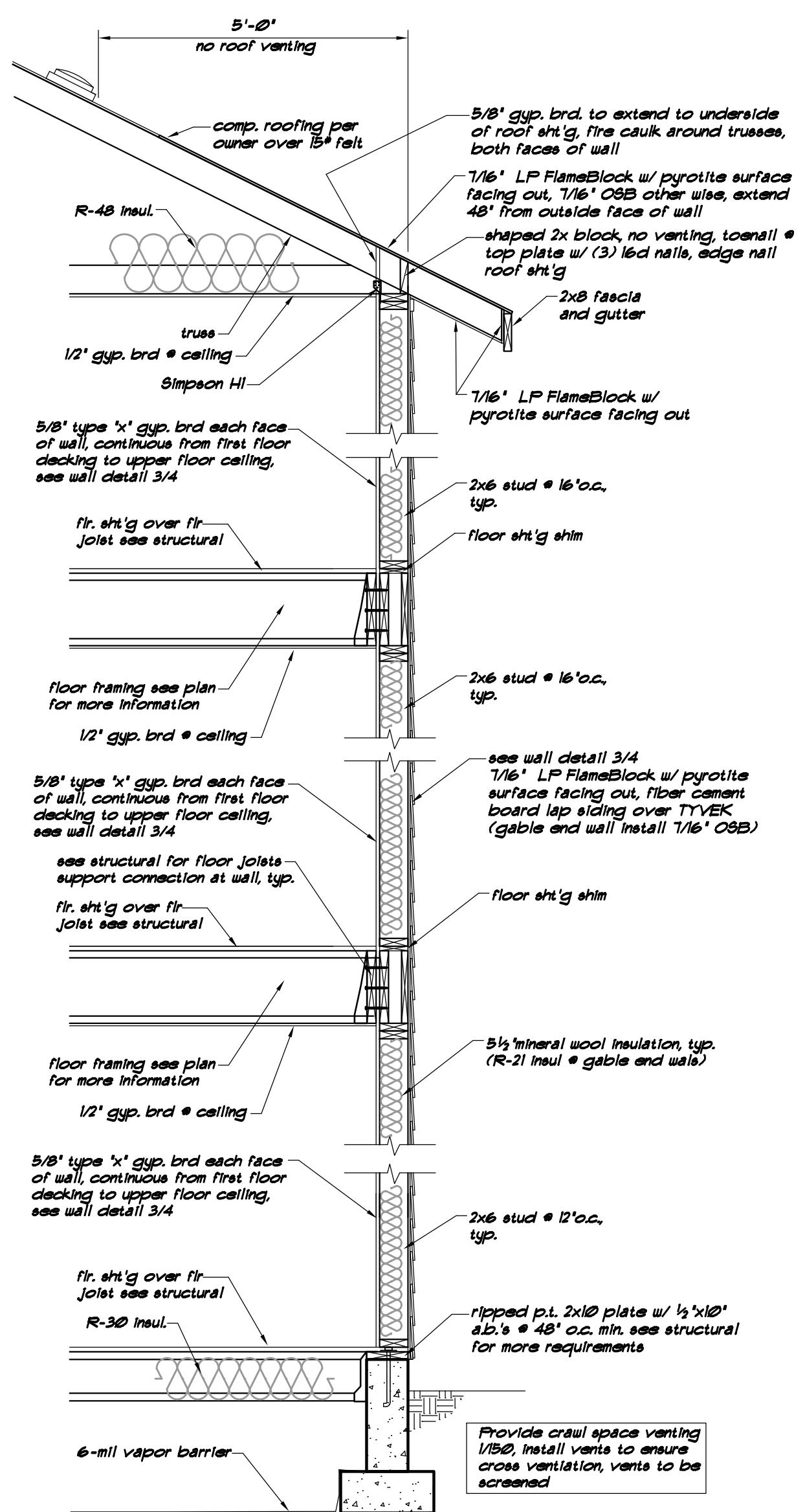
1. Gypsum wall assembly (ul/cic classified u300 or u400 series)  
(1-hr or 2-hr fire-rating) (2-hr shown).
2. (not shown) wood studs to consist of nominal 2"x4" lumber.  
Steel studs to be minimum 2 1/2" wide.
3. penetrating item to be one of the following:  
A. Maximum 30" diameter steel pipe (schedule 10 or heavier)  
B. Maximum 30" diameter cast iron pipe  
C. Maximum 6" nominal diameter copper pipe  
D. Maximum 6" nominal diameter steel conduit  
E. Maximum 4" nominal diameter arm.
4. Hilti re-one high performance intumescent firestop sealant:  
A. Minimum 5/8" for a 1-hr fire-rating.  
B. Minimum 1 1/4" depth for a 2-hr fire-rating
5. Minimum 1/2" bead of Hilti re-one high performance firestop sealant at point of contact.

**NOTES:**

1. Maximum diameter of opening:  
A. 32 1/4" for steel stud walls.  
B. 14 1/2" for wood stud walls.
2. Annular space = minimum 0", maximum 2 1/2"

**FIRESTOP SYSTEM DETAIL**

NTS.

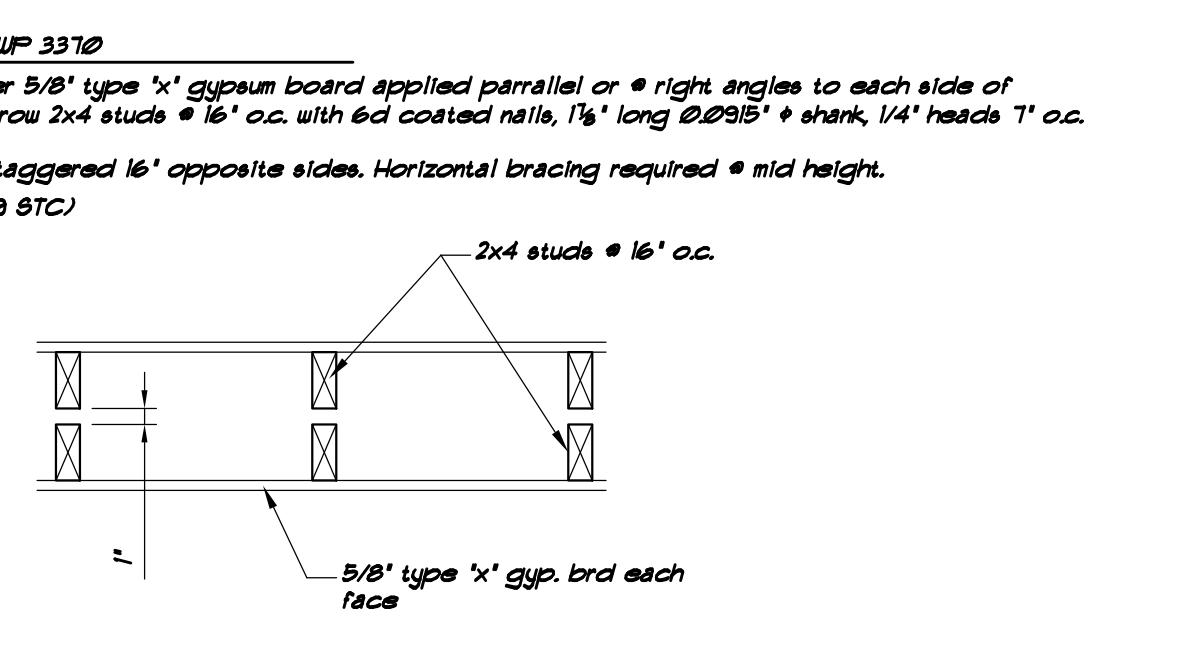


**1-hr Fire Wall (5'-0"-10'-0" from property line)**

nts.

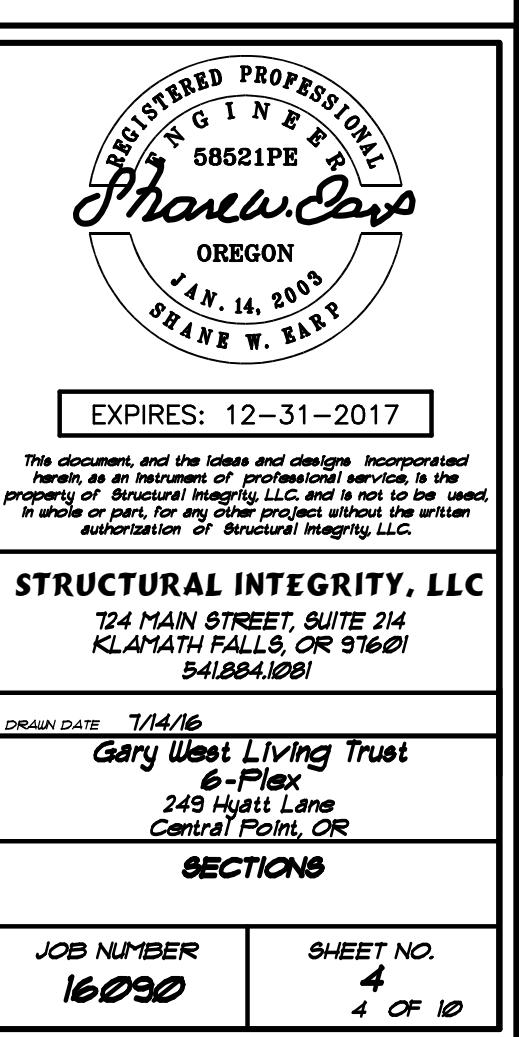
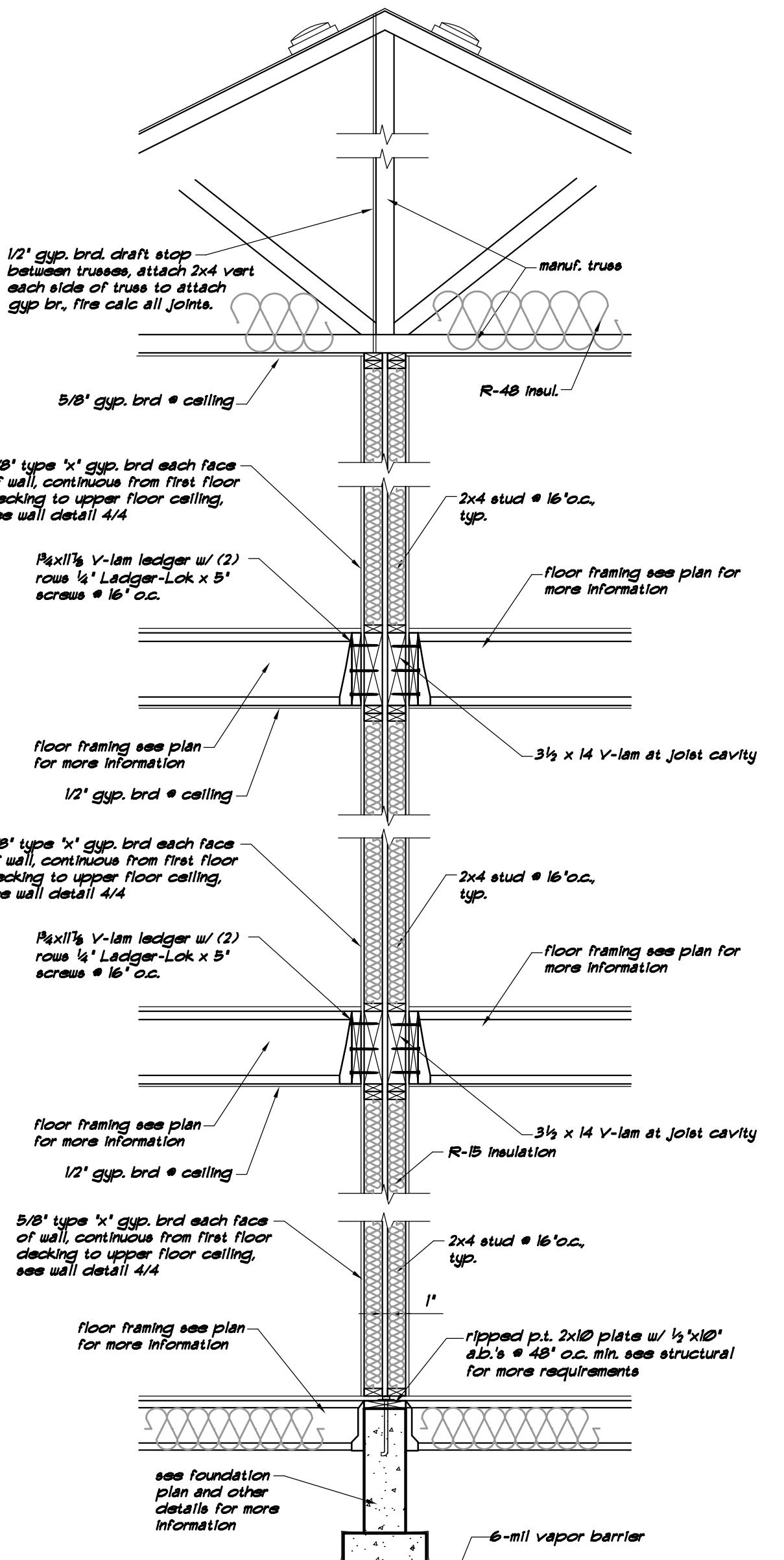
**Unit Separation Wall Section**

nts.



**1-hr Fire Wall Detail**

**1-hr Fire Wall Detail**



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541.204.1201  
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Gary West Living Trust  
G-Plex  
249 Hyatt Lane  
Central Point, OR  
**SECTION:**  
**JOB NUMBER:** 16090  
**SHEET NO.:** 4 OF 10

# STRUCTURAL NOTES

## GENERAL:

- These structural notes supplement the drawings. Any discrepancy found among the drawings, notes, and any site conditions shall be reported in a timely manner to the engineer, who shall respond to any discrepancy in writing. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's own risk.
- The Contractor shall verify and coordinate the dimensions among all drawings prior to proceeding with any work or fabrication.
- The Contractor is responsible for all demolition and construction methods, techniques, sequencing, and safety required for the work.
- The Contractor is responsible for the design and construction of all erection bracing, form work, and temporary shoring required for the work.
- Where no specific detail is shown, the construction shall be identical or similar to that indicated for like cases of construction on this project. Should there be any question, contact the Engineer prior to proceeding.
- All substitutions for structural members, hardware or details shall be reviewed by the Engineer. Such review will be billed on a time and materials basis to the general contractor with no guarantee that the substitution will be allowed.
- Do not scale drawings. Contact the Engineer for any dimensions not shown.

## DESIGN CODE:

- 2014 Oregon Structural Specialty Code
- All references to other codes and standards (ACI, ASCE, etc.) shall be for the latest or most current edition available.
- design loads per 2010 OSBC.

Floor Loads 40 psf

Roof Loads:  
Roof - Dead 15 psf  
Roof - Live See Snow Loads

1603.13 - Snow Loads:  
Ground Snow Load, Pg 25 psf  
Flat-roof Snow Load, Pf Use 25 Psf Min.  
Snow Exposure Factor, Cs 10  
Snow Load Importance Factor, Is 10  
Thermal Factor, Ct 10

Wind Design Criteria:  
Basic Wind Speed (100 yr, 3-second Gust) 120 mph  
Wind Importance Factor, Iw 10  
Wind Exposure Exposure B

Earthquake Design Criteria:  
Seismic Importance Factor, Is 10  
Occupancy Category Group II  
Spectral Acceleration, Sa 0.015  
Spectral Acceleration, Sg 0.335  
Site Class Site Class D  
Spectral Response Coefficient, Sg 0.538  
Spectral Response Coefficient, Sd 0.386  
Seismic Design Category Category D  
Design Base Shear V = Cw  
Seismic Response Coefficient(s), Cs 0.828G Working Stress  
Response Modification Factor(s), R 6.5

FOUNDATIONS:  
1. Maximum design soil bearing pressure = 1500 psf, no soils report available.  
2. Footing elevations shown on drawings are to bottom of footing.  
3. Footings shall be founded on firm, undisturbed soil.  
4. All footings shall be a minimum of 1'-6" below final grade.  
5. Bottom of footings shall be stepped from elevation to elevation at 2'-0" horizontal to 1'-0" vertical steps or shall be sloped not to exceed 1' vertical to 10' horizontal when approved by the Engineer.

CONCRETE (CAST IN PLACE):  
1. All concrete shall be normal weight and shall develop a minimum 28 day laboratory cured compressive cylinder strength of 3000 psi for all concrete - design 2500 psi (no special inspection required).  
2. Concrete forms, mixing, placing and curing shall conform to ACI manual of concrete practice, latest edition, and specifications.  
3. Concrete shall have a maximum slump of 4 inches.  
4. Concrete shall be placed in one continuous operation.  
5. Size and location of sleeves through floors or walls for mechanical or electrical access shall be approved by the engineer prior to placing concrete.  
6. All bolts for concrete shall conform to ASTM specification A307 and shall be of the size indicated on the drawings.

REINFORCING STEEL:  
1. Reinforcing bars shall be new billet steel and shall conform to:  
ASTM A615 grade 60 for all reinforcement.  
ASTM A615 grade 40 for beams, stirrups, column ties and as noted.  
2. All welded reinforcing steel, metal inserts and connections shall conform to IBC standards.  
3. Welded wire fabric shall conform to ASTM A125.  
4. Reinforcement shall be detailed, fabricated and placed in accordance with ACI Code 318 and ACI Commentary. All reinforcement shall be free of loose mill and rust scale, oil, dirt, and coatings of any manner that will reduce bond; all reinforcement shall be continuous with adequate laps.  
5. Reinforcement shall be secured in form with suitable ties and anchorage to prevent displacement. Bars adjacent to earth shall be supported by cement mortar cubes.  
6. The following minimum concrete cover shall be provided for reinforcement:  
a) concrete cast against earth ..... 3"  
b) concrete exposed to earth or weather 2"  
c) and larger ..... 2"  
d) and smaller ..... 1-1/2"

c) concrete not exposed to earth or weather  
size smaller than joists, 1" and smaller ..... 1/4"  
beams and columns ..... 1-1/2"

7. Place 2"-0" x 2"-0" bars at corners and intersections for walls and foundations equal in size and spacing to horizontal reinforcing.

8. Reinforcement splices shall be 44 dls. (24" min.) 14 ps.

9. Unless noted otherwise, provide shrinkage & temperature reinforcement in all slabs.

10. Provide corner bars 6" x 3'-0" o.c. max. spacing for all slab, joist and wall reinforcing not supported by other transverse reinforcing.

SAWN FRAMING LUMBERS:  
1. All sawn lumber shall be Douglas Fir, S4S, graded in accordance with UCLIB rules #6, of the following grades:  
studs, joists, plates, headers, blocking: no. 2  
4x beams: no. 2  
6x beams, posts: no. 1  
2. All 2x lumber shall be 8-dry, uno.  
3. Double all joists under all parallel partitions.  
4. All wood in permanent contact with concrete or masonry to be pressure treated. treat all cut ends.

## METAL PLATE CONNECTED TRUSSES:

- Metal plate connected trusses shall be designed and manufactured in accordance with 'Design Specifications for Light Metal Plate Connected Wood Trusses', TPI-24 as published by the Truss Plate Institute and shall be designed for the following minimum loads:
 

top chord.....	25 psf live load 8 psf dead load
bottom chord.....	10 psf live load (not concurrent with top chord live load) 9 psf dead load
net uplift (wind)....	12 psf

- The truss manufacturer shall submit designs, stress diagrams, shop drawings and calculations bearing the stamp of a structural Engineer registered in the State of Oregon to the Engineer-Of-Record for review.
- The truss manufacturer shall supply all hardware, anchorages, and metal seats required, and shall design and indicate bracing required to be supplied by the General Contractor.
- Lower chords shall be cambered to provide for dead load deflection at gypsum board ceiling.
- All connection plates shall develop the full stress in member with a minimum transfer at any member of 2000 lbs, and minimum size of plates of 3" x 5".
- Truss supplier shall review all the truss, bridging, hanger, blocking and web stiffener requirements and all concentrated loads prior to truss fabrication.
- Contractor to coordinate with truss manufacturer all mechanical loads and locations.

## NAILING AND FASTENERS:

- Nailing indicated on plans and details are 'common' nails. Minimum framing nailing shall be 2d at 16" o.c. See details for additional typical nailing requirements. Substitution of nails other than 'common' is not permitted without prior approval.
- Pewter driven nails other than 'common' may be used if data is submitted and approved prior to use.
- Plywood nailing shall be as follows:
  - roof sheathing: ..... 8d at 6" o.c. at all panel edges  
8d at 12" o.c. at all intermediate supports
  - floor sheathing: ..... 10d at 6" o.c. at all panel edges  
10d at 12" o.c. at all intermediate supports
  - wall sheathing: ..... block all edges with 2 x 4 flats, nailing as indicated on drawings.

- All bolted connections shall be made with machine bolts (mb) conforming to ASTM A307, all bolts and lags shall be installed with standard wrought washers, unless noted otherwise.
- Joist hangers, hold down, and other framing accessories are referred to on plans by particular type as manufactured by Simpson Company - San Leandro, ca. All hardware is to be fastened per manufacturer's specifications, unless otherwise indicated.
- Epoxy anchor bolts indicated on drawings shall be as manufactured by Hilti Co. or equivalent, and shall be installed with standard washers on the drawings.
- Sills at walls shall be bolted to concrete with 1/2" diameter x 10" long anchor bolts or 1/2" diameter epoxy anchor bolts at 4'-0" o.c. maximum and within 1'-0" of sill plate ends, corners or splices, unless detailed otherwise.

## STRUCTURAL SHEATHING:

- All sheathing shall be as follows:
  - roof sheathing: ..... 19/32", Index 32/16
  - floor: ..... 17/32" T4G, Index 48/24
  - walls: ..... 19/32", Index 32/16
- Floor and roof plywood shall be installed with face grain perpendicular to supports and end joints shall be staggered.
- Provide 1/4" clip gapping at unsupported edge of roof sheathing where support spacing exceeds 16" o.c. into a blocked edge.
- Block all wall sheathing with 2 x 4 blocking at all edges.
- All floor sheathing shall be glued to supporting joist w/ subfloor adhesive.

## NAILING SCHEDULE

Connection	Nailing
joist to sill or girder, toe nail bridging to joist, toenail each end	3-8d
sole plate to joist or blocking, typical face nail	2-8d
sole plate to joist or blocking, at braced panels	16d @ 12" o.c.
top plate to stud, and nail	4-16d per 12'
stud to sole plate	2-16d
double stud, face nail	4-8d
double top plates, typical face nail	16d @ 24" o.c.
double top plates, lap splices	16d @ 16" o.c.
blocking between joists or rafters to top plate, toenail	12-16d equally spaced
rim joist to top plate, toe nail	3-8d
top plates laps and intersections, face nail	16d @ 6" o.c.
continuous header, two pieces	2-16d
calling joist to top plate, toe nail	16d @ 6" o.c.
continuous header to stud, toenail	3-8d
header to joist, toe nail	4-8d
calling joists, tops of all partitions, face nail	3-8d
calling joists to parallel rafters, face nail	3-8d
rafter to plate, toenail	3-8d
built up corner studs	16d @ 24" o.c.
multiple stud post	16d @ 8" o.c.
wood structural wall panels	8d common @ 6" o.c. panel edges
floor structural sheathing	8d common @ 12" o.c. field
floor structural sheathing	8d common @ 6" o.c. panel edges
	8d common @ 12" o.c. field
	10d common @ 6" o.c. panel edges
	10d common @ 12" o.c. field
	10d common @ 6" o.c. panel edges
	10d common @ 12" o.c. field

- Common or box nails can be used except where otherwise stated.
- Minimum nailing requirements, other nailing requirements may be specified in the construction documents.

## BOLTE CASCADE PRODUCTS:

- Roof and floor framing designated 'BCI' 'V-Lam', shall be the type and size indicated on drawings, as manufactured by Bolte Cascade, Inc.
- Laminate multiple joists where indicated on drawings as per joist manufacturer's recommendations.
- Contractor to verify all weights and locations of concentrated loads due to roof top mechanical units, mechanical piping, electrical units, folding partitions and other concentrated loads prior to joist fabrication.
- Camber all joists as per manufacturer's recommendations.
- If joists are supplied other than those specified, the joists supplied shall meet or exceed the shear capacity, moment capacity, and stiffness properties of the joist specified. all substitutions must be approved by the engineer.

## GLUE LAMINATED MEMBERS:

- All glue laminated timber beams shall be Douglas Fir 24F-V4 at all simple beams and grade 24F-V3 at all cantilever and continuous beams, unless otherwise specified on the drawings.
- All glulam timber shall be fabricated in accordance with ATIC ITT-93 manufacturing, using Douglas Fir lumber and waterproof adhesives. each member shall bear an atic identification mark and be accompanied by an atic certificate of conformance.
- Glulam timber beams shall have camber as indicated on the drawings.
- All glulam members shall be notched, shaped and finished as per plans and specifications.
- See specifications (if provided) for finish and protection.

## ABBREVIATIONS:

ab.....	anchor bolt	(n).....	near side
bun.....	bun	n.s. ....	not to scale
cl.....	construction joint	oc.....	on center
contin.....	continuous	oh.....	opposite hand or overhang
cp.....	counter penetration	pc.....	partial penetration
ct.....	countersink	pt.....	pressure treated
df.....	douglas fir	rhw.....	round head wood screw
dl.....	dead load	sc.....	sheet connector (3/4")
do.....	ditto	sp.....	structural plywood
(e).....	extending	st.....	studs
en.....	expansion joint	staggered.....	staggered
ewat.....	each way each face	t & b.....	top & bottom
fb.....	face of block	t & g.....	tongue & groove
fr.....	face of frame plate or framing clip (simpson A35)	tc.....	top of slab
frus.....	flat head wood screw	tos.....	top of steel
fp.....	face of plywood	uno.....	unless noted otherwise
frs.....	face of stud	w.....	with
frs.....	far side	w/o.....	without
frs.....	front side	w/w.....	welded wire fabric
frs.....	front side	centerline.....	centerline
frs.....	front side	plate.....	plate
frs.....	front side	ps.....	pounds
frs.....	front side	sq.....	square
frs.....	front side	round.....	round
m.i.....	malleable iron	wood block.....	continuous wood in section
			wood blocking in section



EXPIRE: 12-31-2017  
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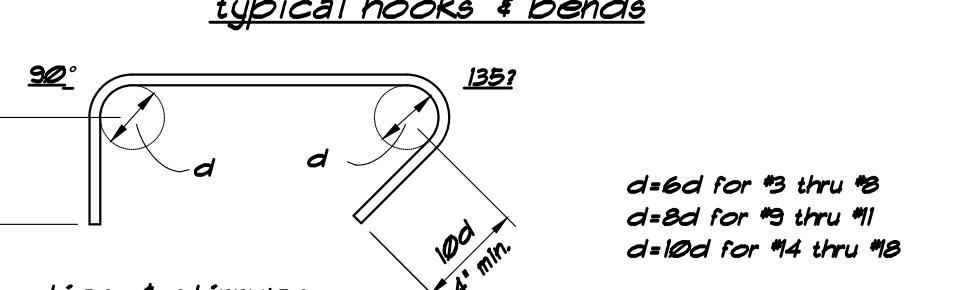
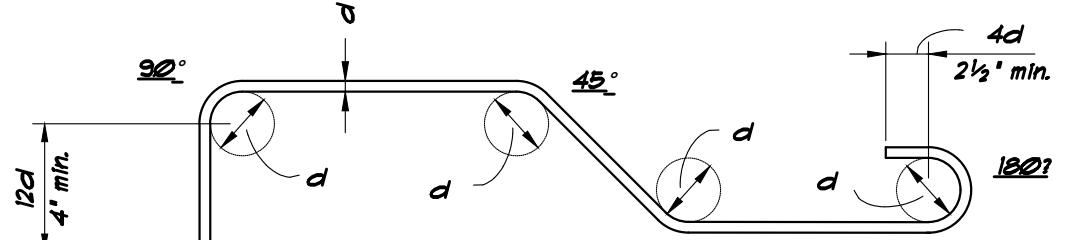
DRAWN DATE: JAN 14  
Gary West Living Trust  
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STRUCTURAL NOTES

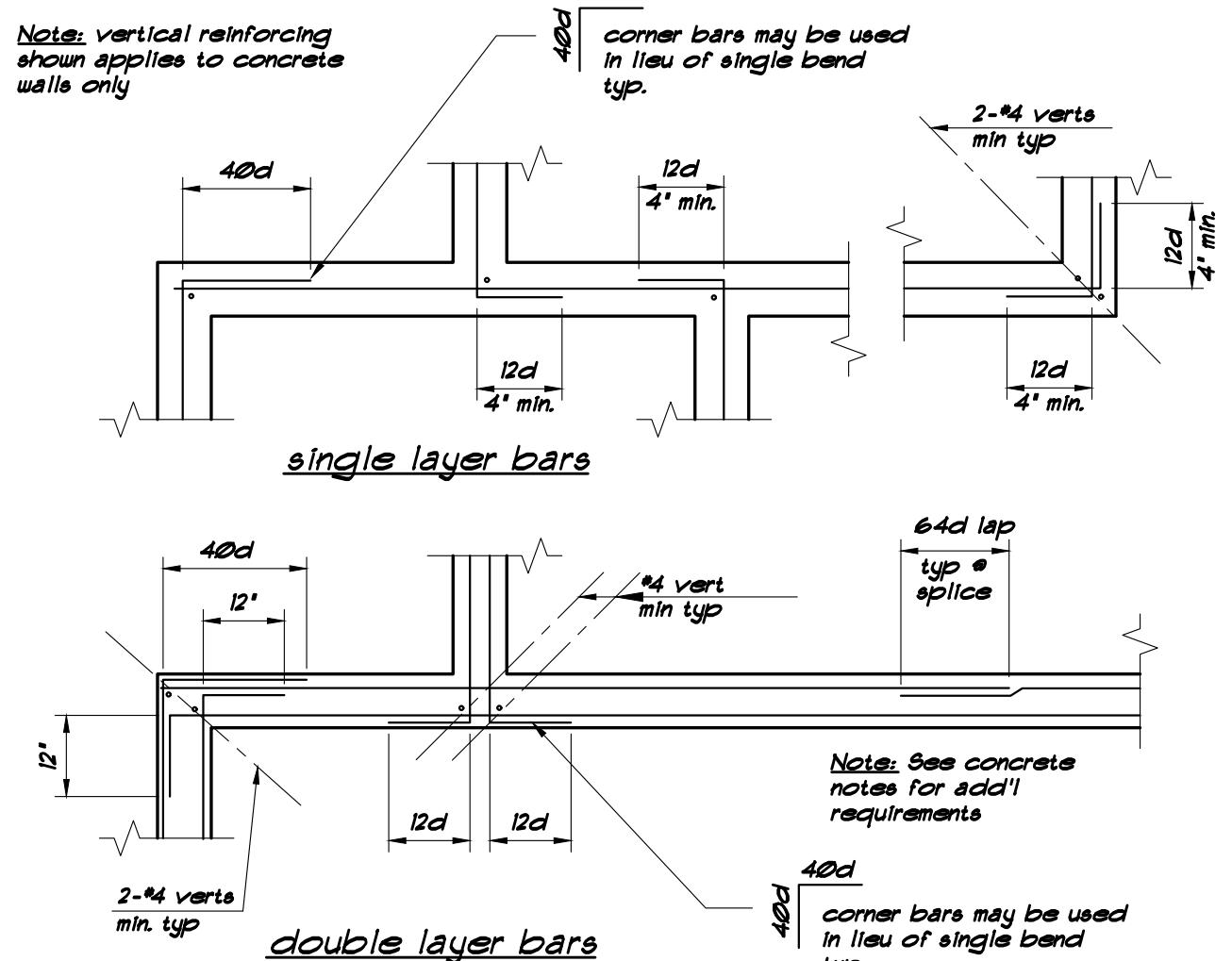
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SHEET NO.: 51  
5 of 10

# STANDARD STRUCTURAL DETAILS

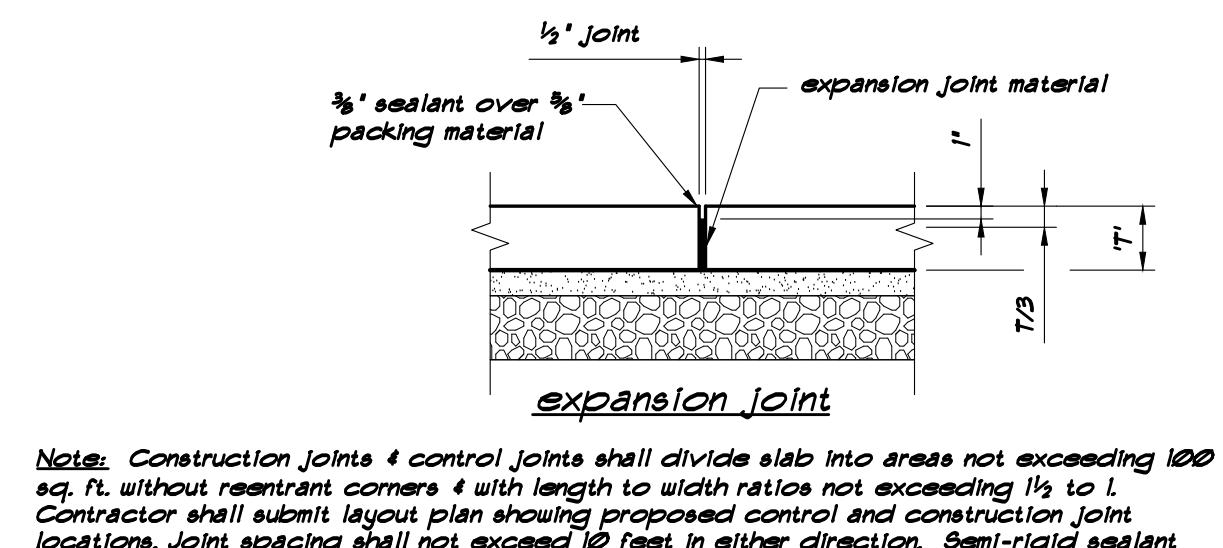
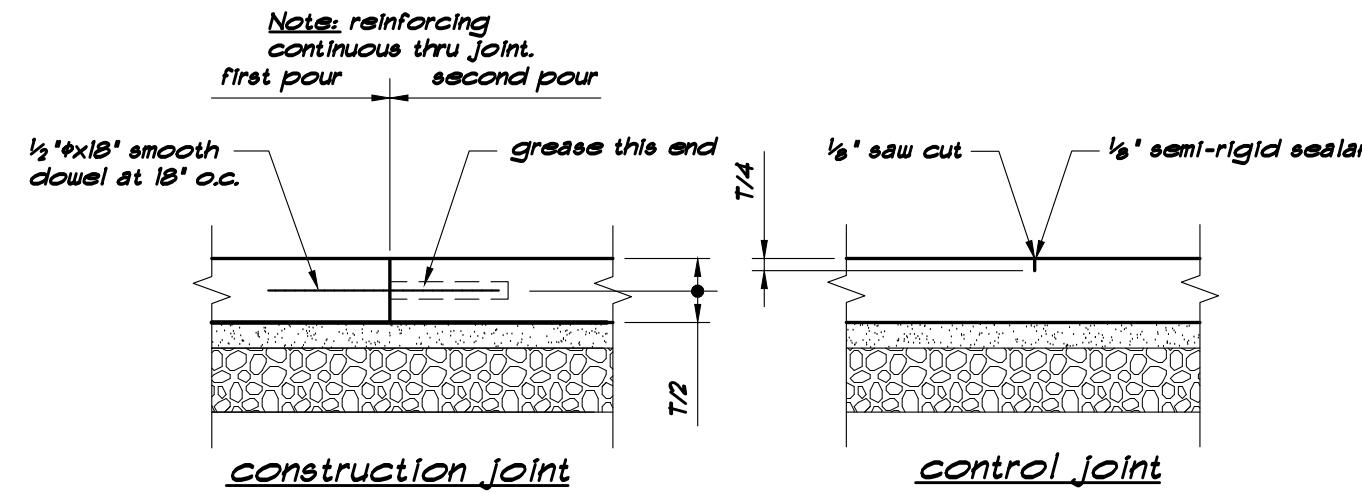
applicable only to structural drawings by  
Structural Integrity LLC



1 rebar hooks & bends n.t.s.

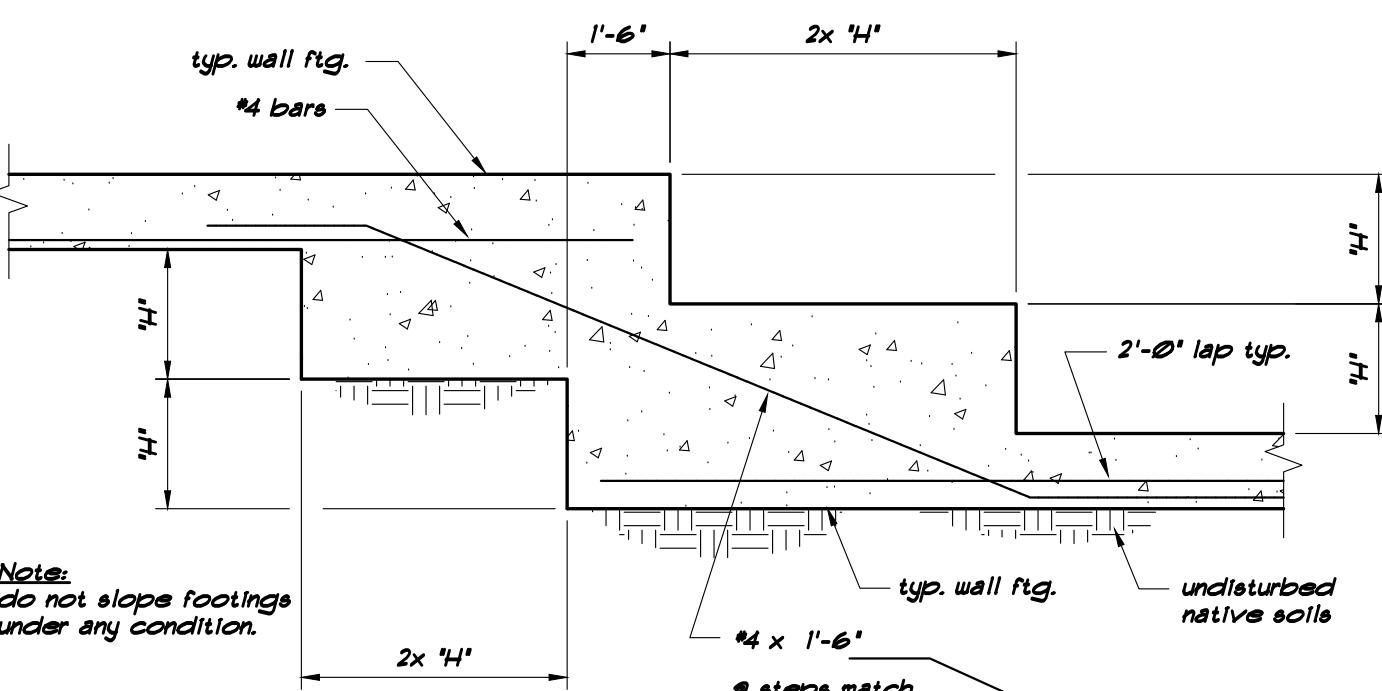


2 corner reinforcing at concrete walls & footings n.t.s.

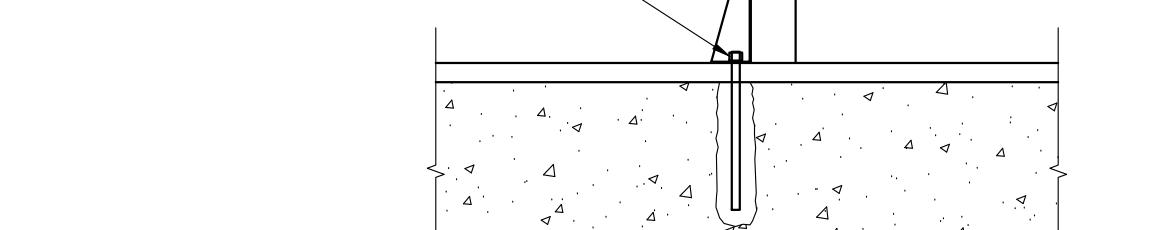
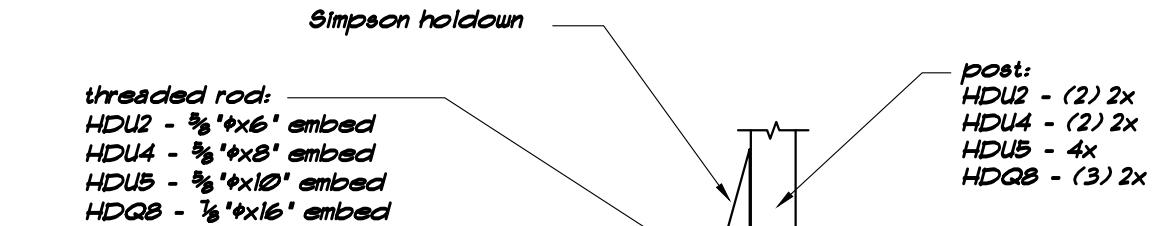


Note: Construction joints & control joints shall divide slab into areas not exceeding 100 sq. ft. without restraint corners & with length to width ratios not exceeding 1/6 to 1. Contractor shall submit layout plan showing proposed control and construction joint locations. Joint spacing shall not exceed 10 feet in either direction. Semi-rigid sealant to be Metzger/Maguire M-100 or equal.

3 slab-on-grade joints n.t.s.

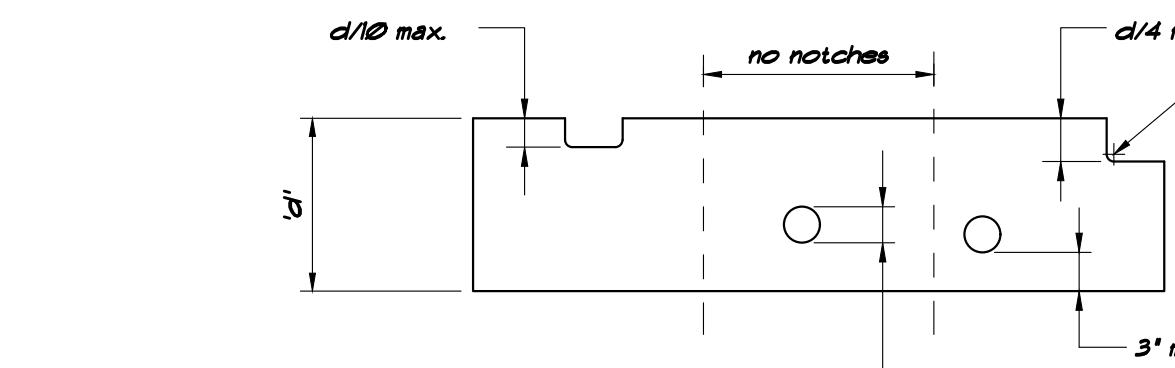


4 typical footing step n.t.s.



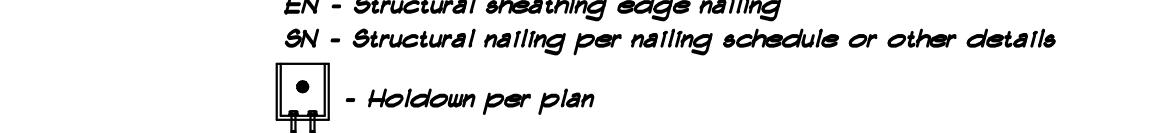
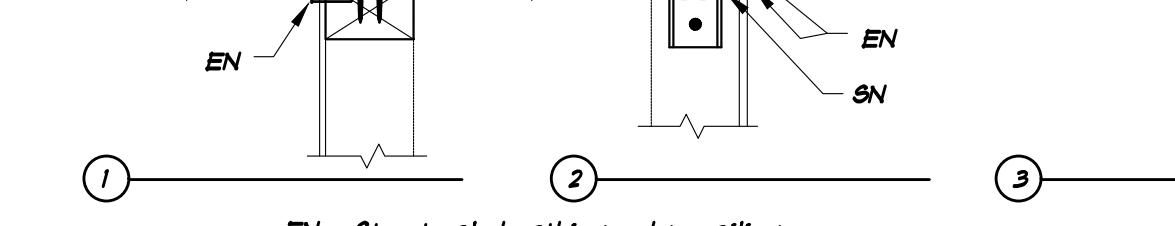
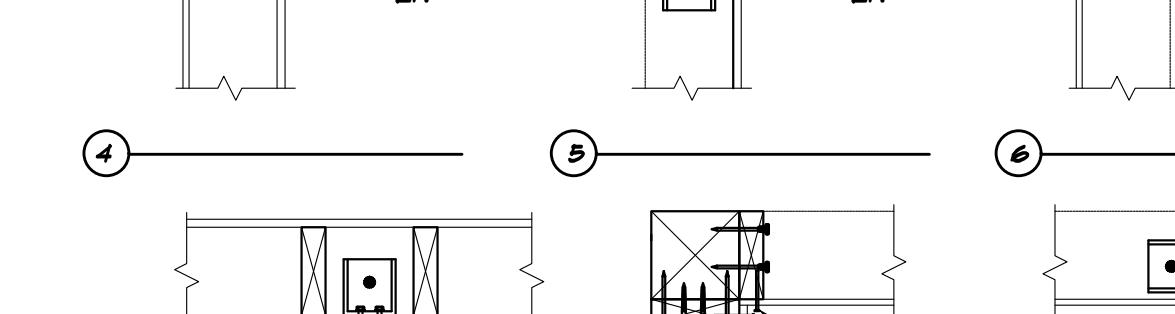
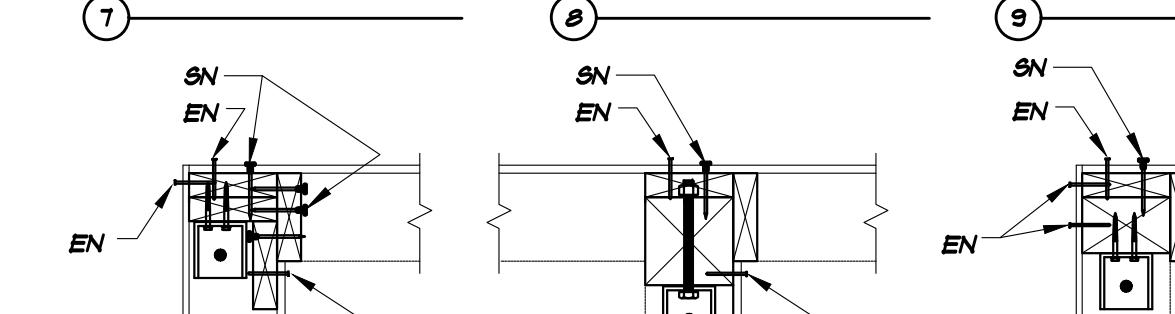
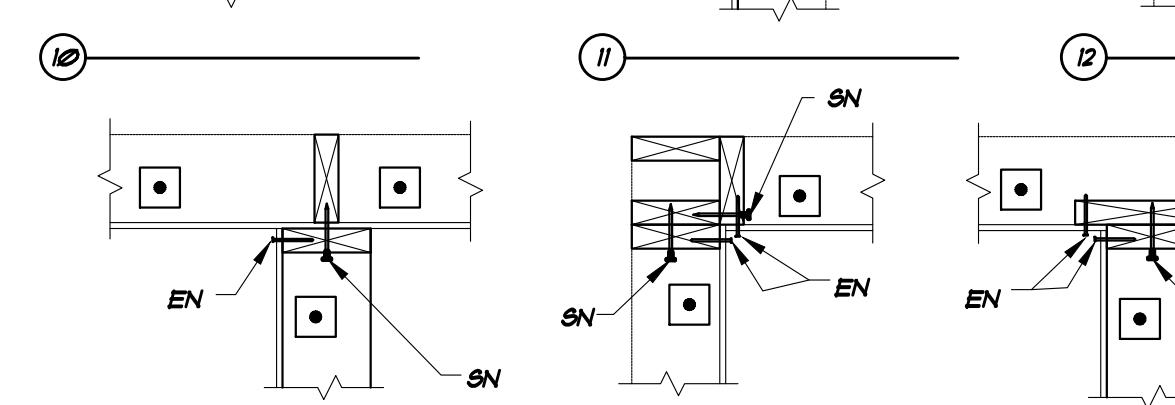
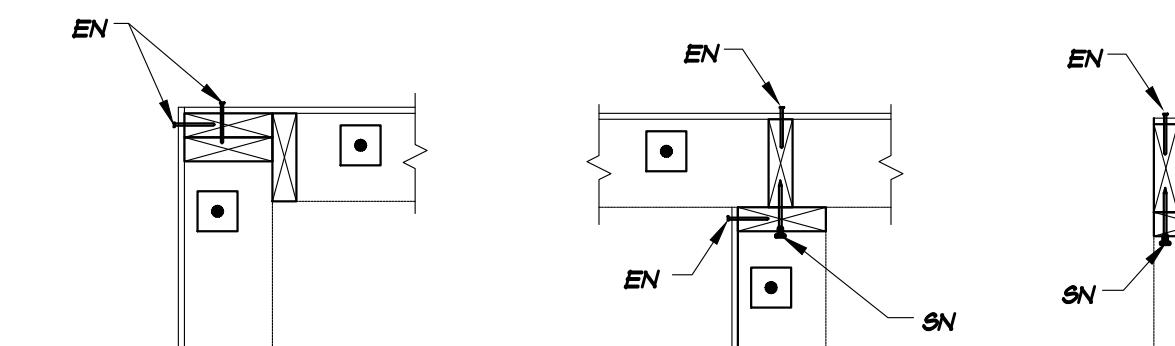
1. drill hole to specified diameter and depth.
2. clean - remove dust from hole with oil-free compressed air. clean with nylon brush and blow out remaining dust. note: dust left in hole can reduce the anchor's holding capacity.
3. fill - fill hole 1/2 - 2/3 full, starting from bottom of hole to prevent air pockets. withdraw nozzle as hole fills up.
4. insert - anchors must be clean and oil free. insert anchor, turning slowly until the anchor contacts the bottom of the hole. do not disturb during cure time.

5 epoxy bolt holdown detail n.t.s.

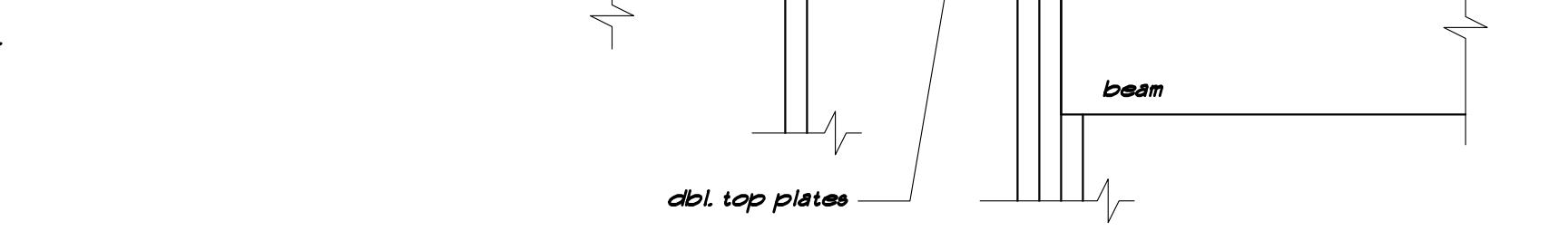
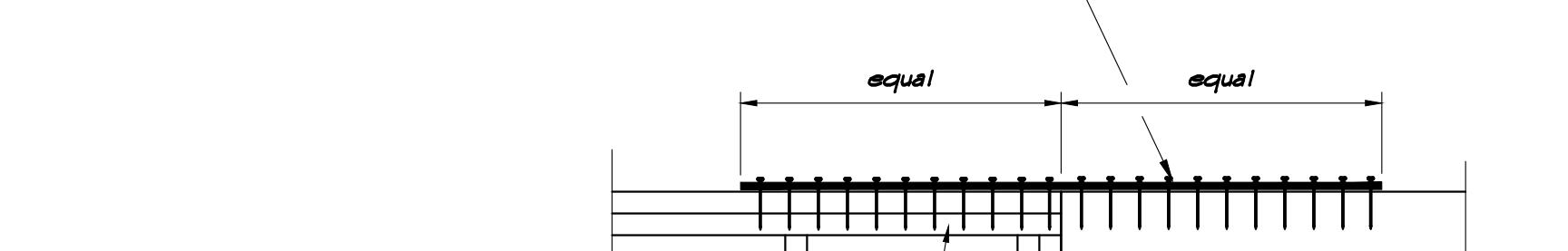
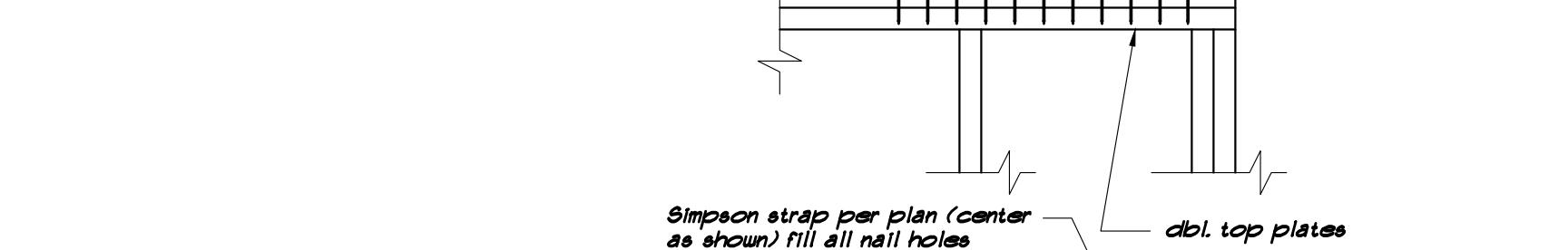
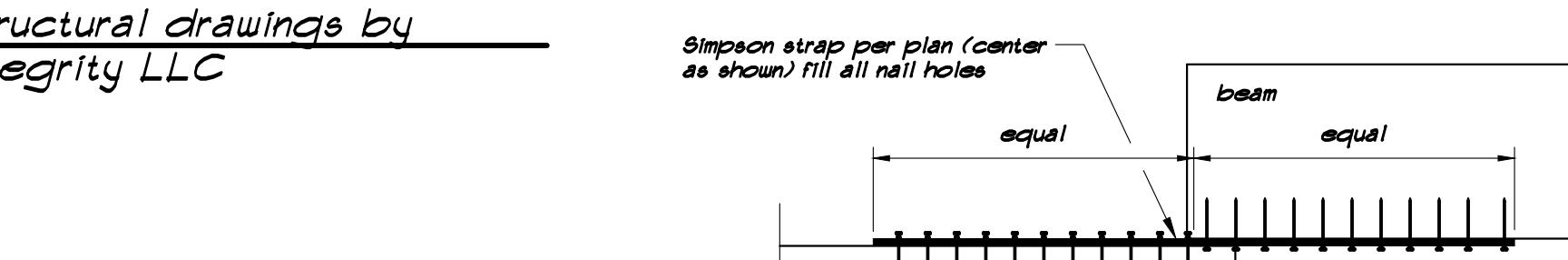


- Notes:
1. predrill corners of notches so as not to over cut.
  2. notches on the ends of joists & headers shall not exceed 1/6 of the joist depth.
  3. notches in the top of joists shall not exceed 1/6 the depth and shall not be located in the middle third of the span.
  4. notches in the bottom of joists allowed only where specifically shown on drawings.
  5. holes bored in joists shall not be within 3" of the top or bottom and shall not have a diameter larger than 1/4 the depth of the joist.

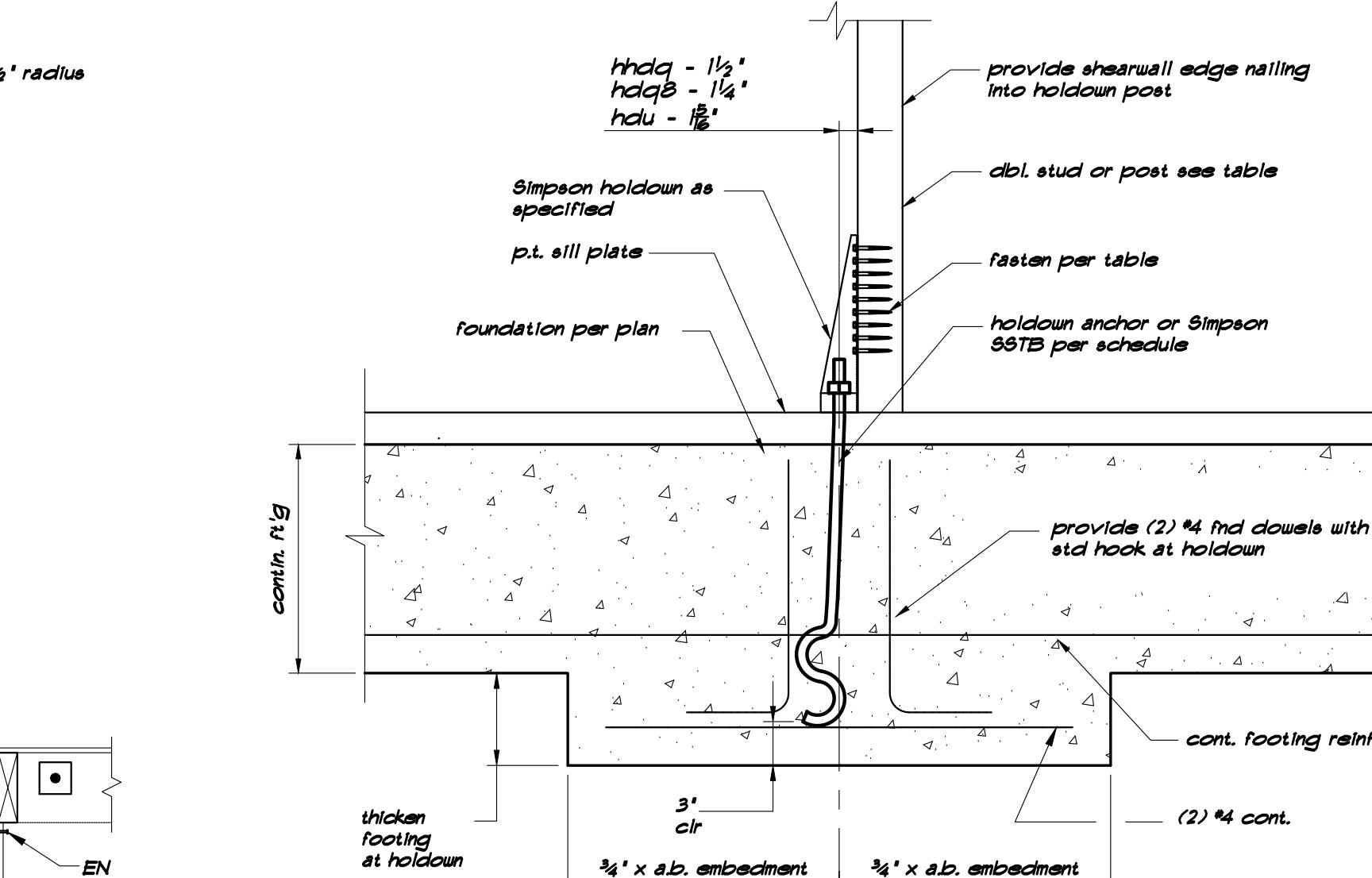
6 notches for jst. & hdrs. n.t.s.



7 corner framing details n.t.s.

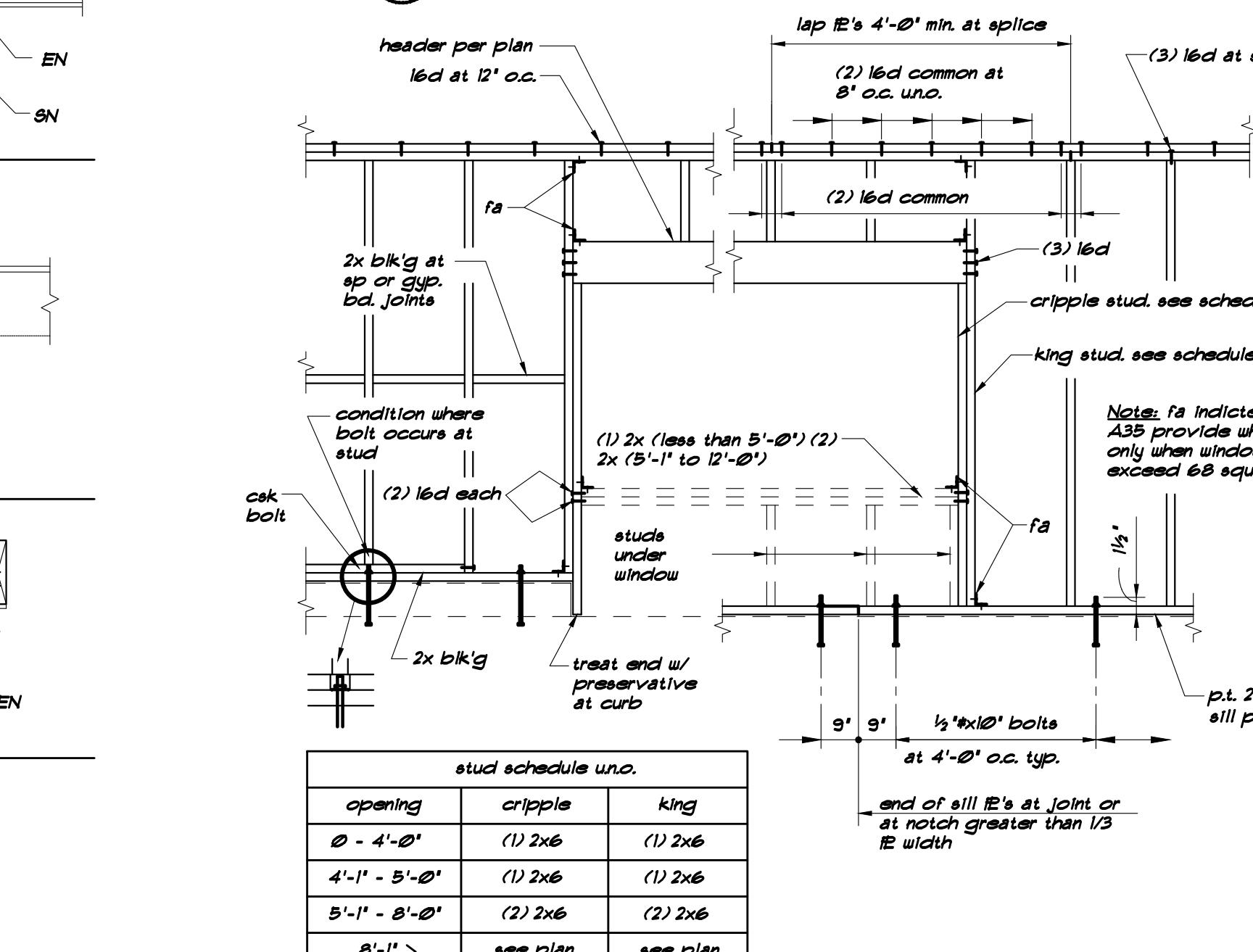


8 drag strut details n.t.s.

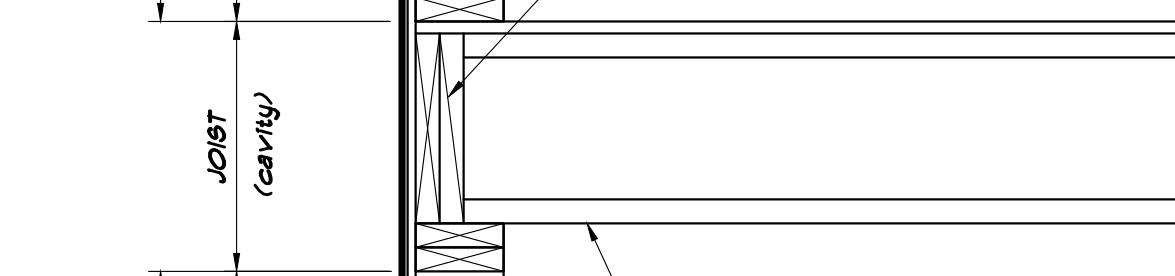
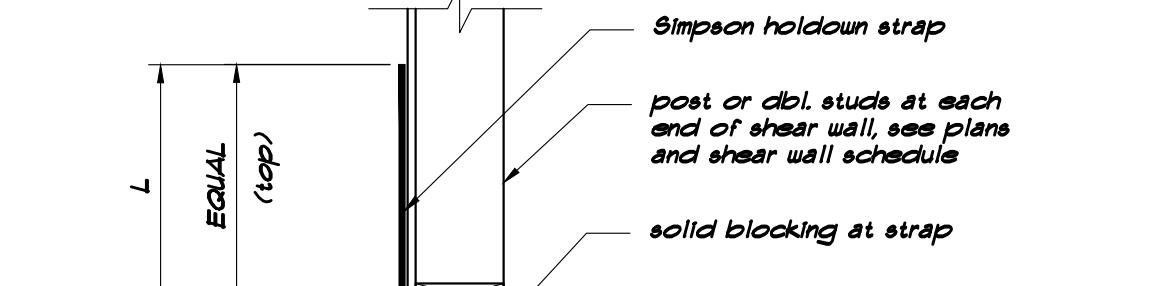


- Notes:
1. holdowns noted on plan are to be located a minimum of 6' from the end of the shear wall.
  2. laminate double studs together with 2 rows 10d nails at 4" o.c.

9 typical Simpson holdown detail n.t.s.

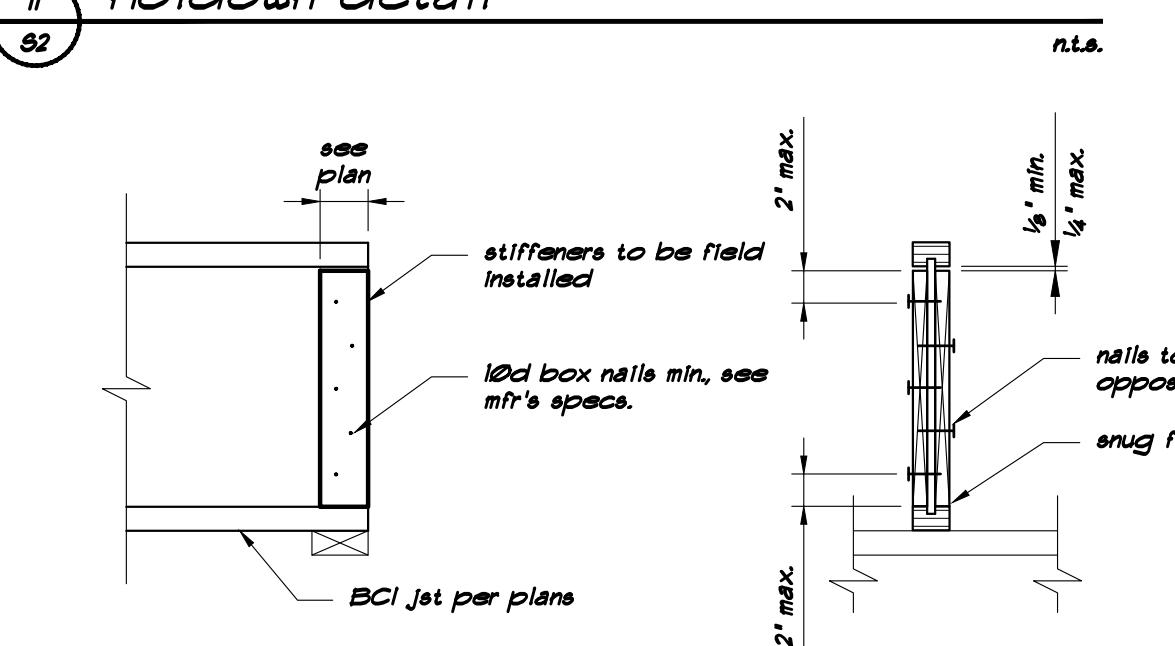


10 typical stud wall & opening detail n.t.s.



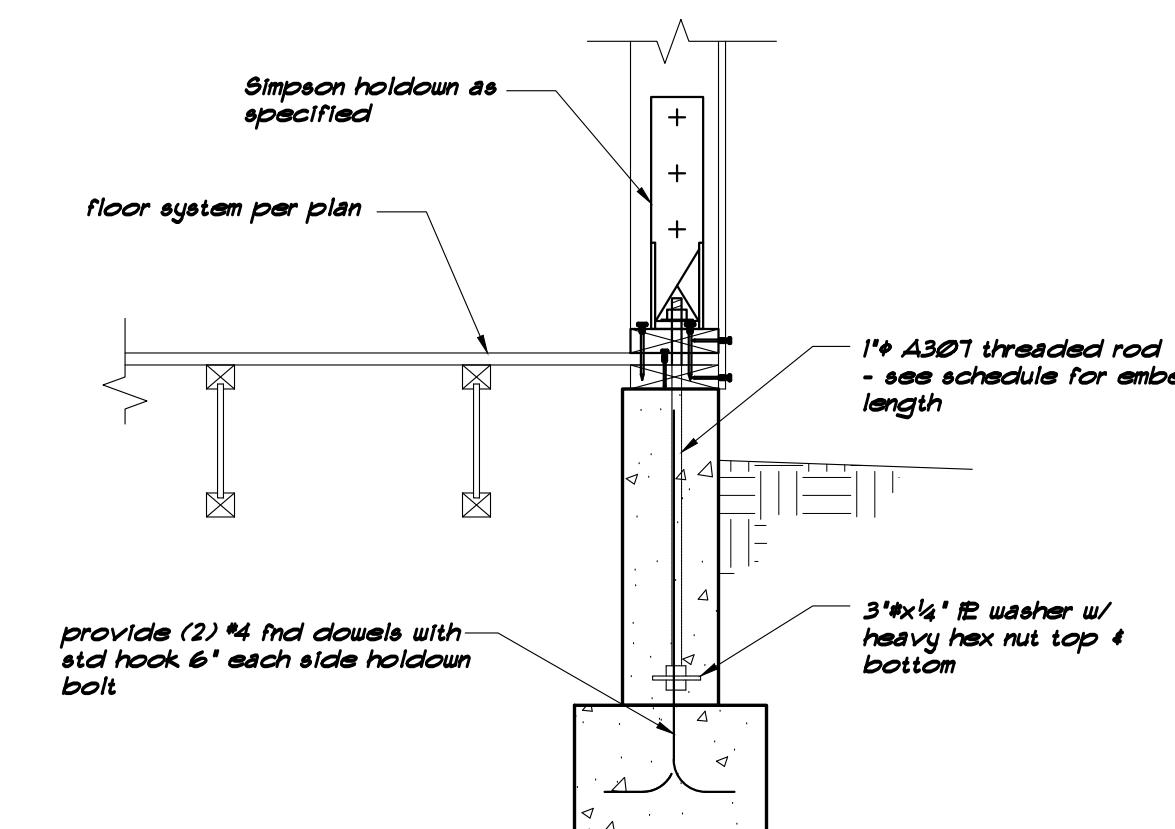
- Notes:
1. holdowns noted on plan are to be located a minimum of 6' from the end of the shear wall.
  2. laminate double studs together with 2 rows 10d nails at 4" o.c.
  3. wrap and nail strap to beam/header below if applicable

11 typical Simpson strap holdown detail n.t.s.

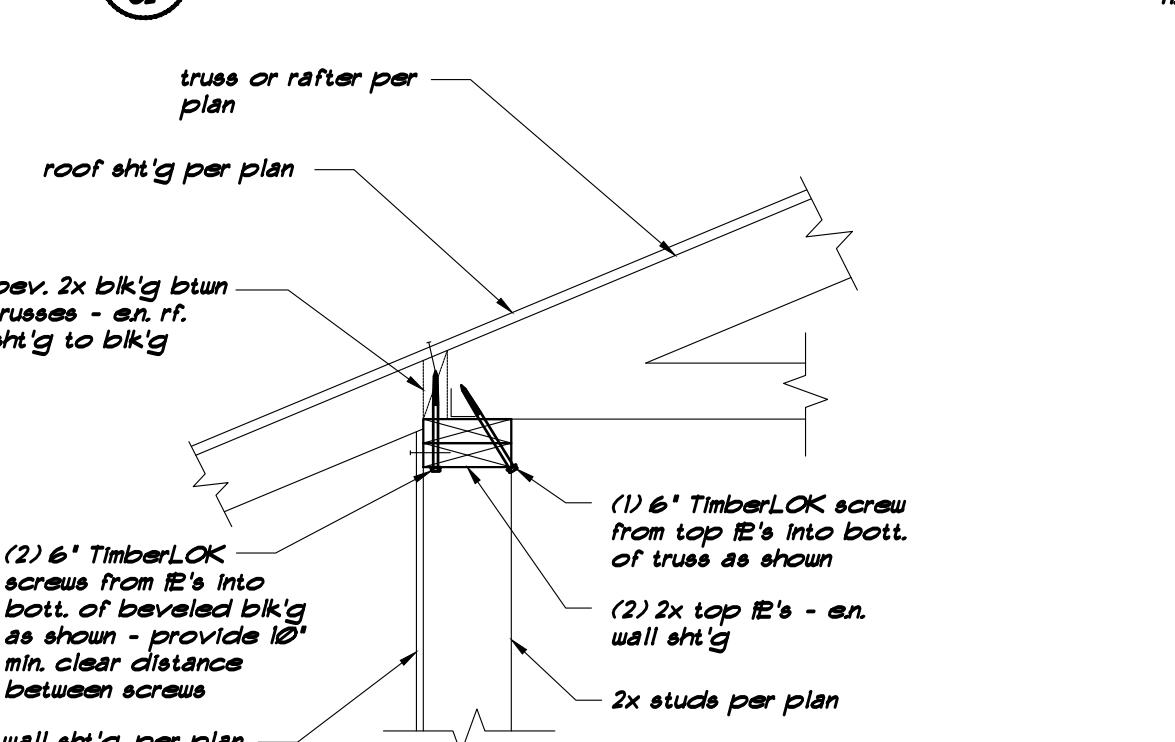


- Notes:
1. web stiffeners to be field installed at all bearing points and concentrated loads per manufacturer's requirements.
  2. gap must be at top at all bearing locations and at bottom at concentrated loads.

12 web stiffener detail n.t.s.



13 HHDQ holdown detail n.t.s.



14 truss tiedown alternate n.t.s.

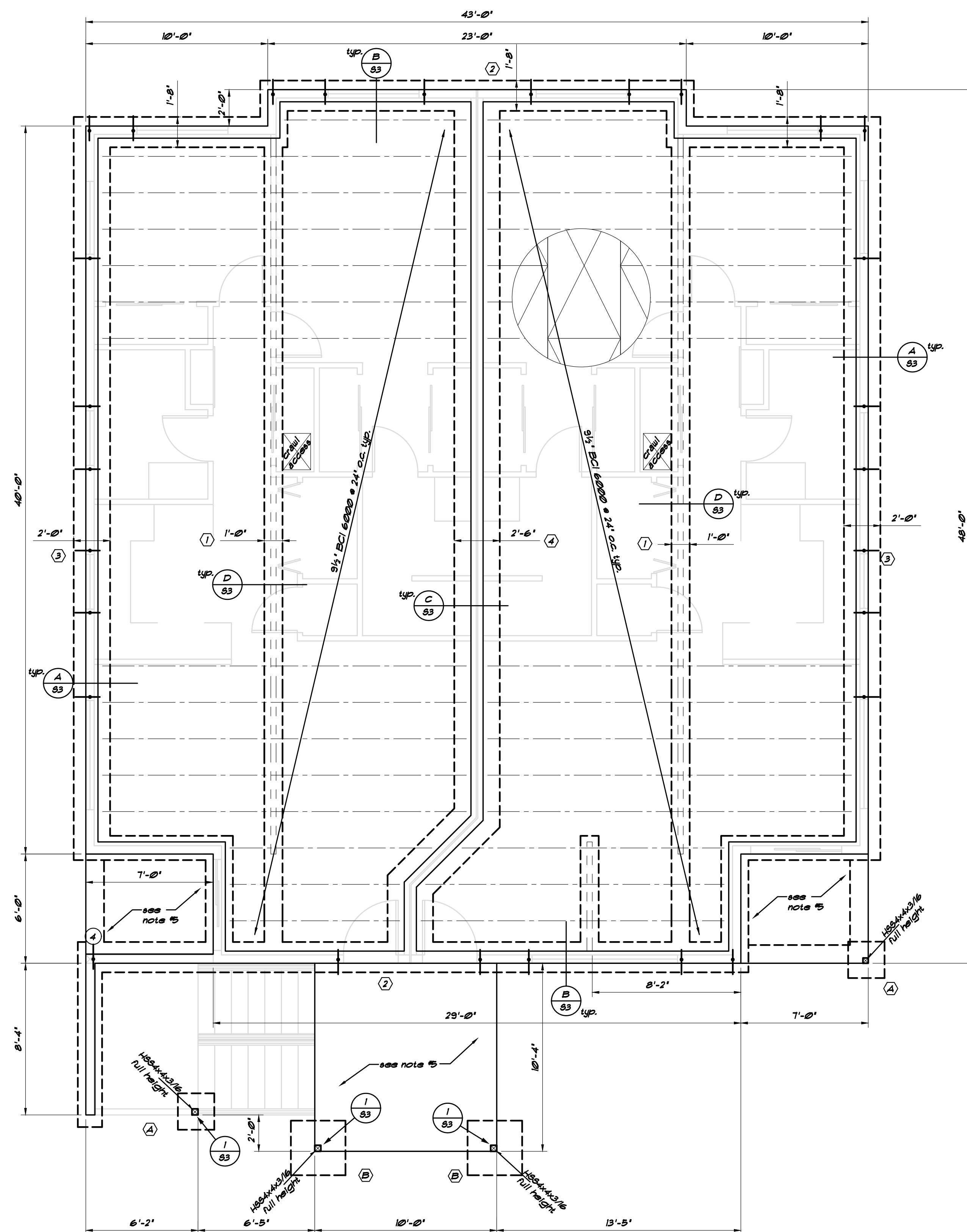


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TYPICAL DETAILS  
JOB NUMBER: 16090 SHEET NO. 92 OF 10



Foundation & Main Floor Framing Plan

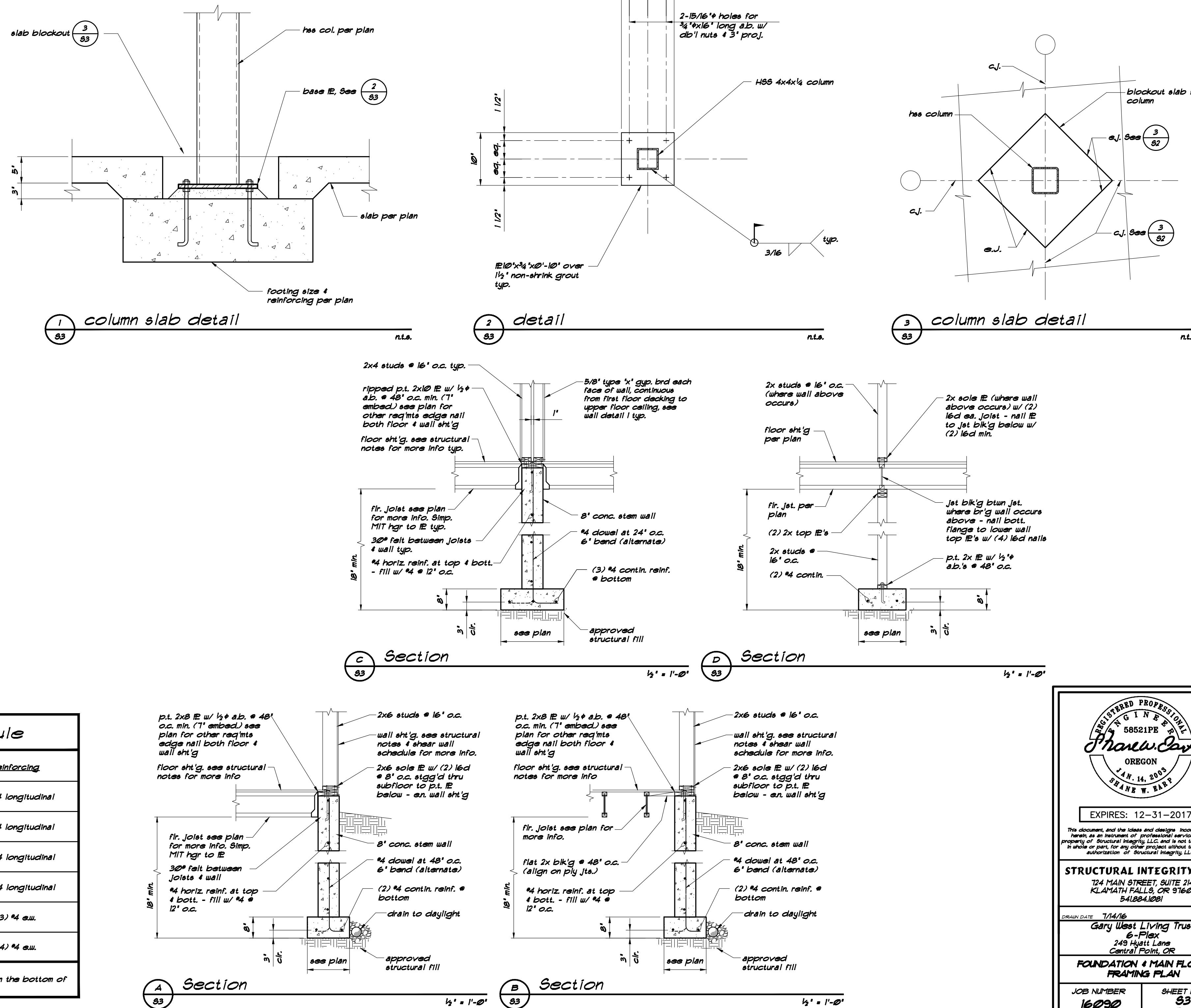
SCALE: 1/4"=1'-0"

Foundation & Main Floor Framing Plan Notes

- See sheet 51 for structural notes & 51 typical details.
- Details on these plans are intended to depict the general construction methods for this structure. Connections, details, and conditions not specifically shown that are similar to those that are specified shall be assumed on and the same. If questions regarding the application of details are encountered, notify the Engineer for clarification in a timely manner prior to construction.
- All exterior wood framed walls to be sheathed and nailed w/ 8d common nails at 6'-0" o.c. edge, 4'-0" o.c. field nailing minimum, unless noted otherwise. Use otherwise, 1/2" #8's (1" embed). Use 3x3x3/16" IBC washer to p.t. mud sill fl. See shearwall schedule for increased nailing and bolting requirements. Simpson Titen base at treated post locations unless noted otherwise.
- Indicates DF # post uno below main floor framing (crawl spaces). See callout this sheet for post size. All multiple stud posts shall be nailed together w/ (2) rows led = 8'-0" o.c. staggered. Use Simpson ABU base at treated post locations unless noted otherwise.
- 4" concrete slab w/ 3" o.c. ed. way over 6' min. leveling course of crushed rock over undisturbed native soils or approved structural fill.
- Indicates footing mark. See schedule this sheet for size and reinforcing.
- All subgrade preparation to be completed in accordance with the Geotechnical Report & approved in the field per the Geotechnical Engineer or representative.
- Provide and un-coated #4 or larger, reinforcing bar stubbed up at least 12" above the floor plate near the electric service or panel location. this stub must extend to be tightly attached to at least a 20' section of reinforcing bar located in the footing.
- Provide a listed non-removable hose bib backflow preventer at potable water outlets w/ hose attachments other than water heater drains and clothes washer connections. hose bibs shall be self draining w/ integral backflow prevention.
- Provide a #12 black polyethylene cover or approved alternate under heated slabs. lap 12 inches at all joints
- Provide crawl space ventilation per 2014 OSBC one square foot per 150 square foot floor area, distribute to provide cross ventilation of crawl space.

Footing Schedule		
#	Size	Reinforcing
①	1'-0" x 8' continuous	(2) #4 longitudinal
②	1'-0" x 8' continuous	(2) #4 longitudinal
③	2'-0" x 8' continuous	(3) #4 longitudinal
④	2'-0" x 8' continuous	(4) #4 longitudinal
⑤	2'-0" x 2'-0" x 10"	(3) #4 #4
⑥	3'-0" x 3'-0" x 10"	(4) #4 #4

Footnotes:  
All footing reinforcing to be placed 3" clear from the bottom of the footing.



EXPIRE: 12-31-2017

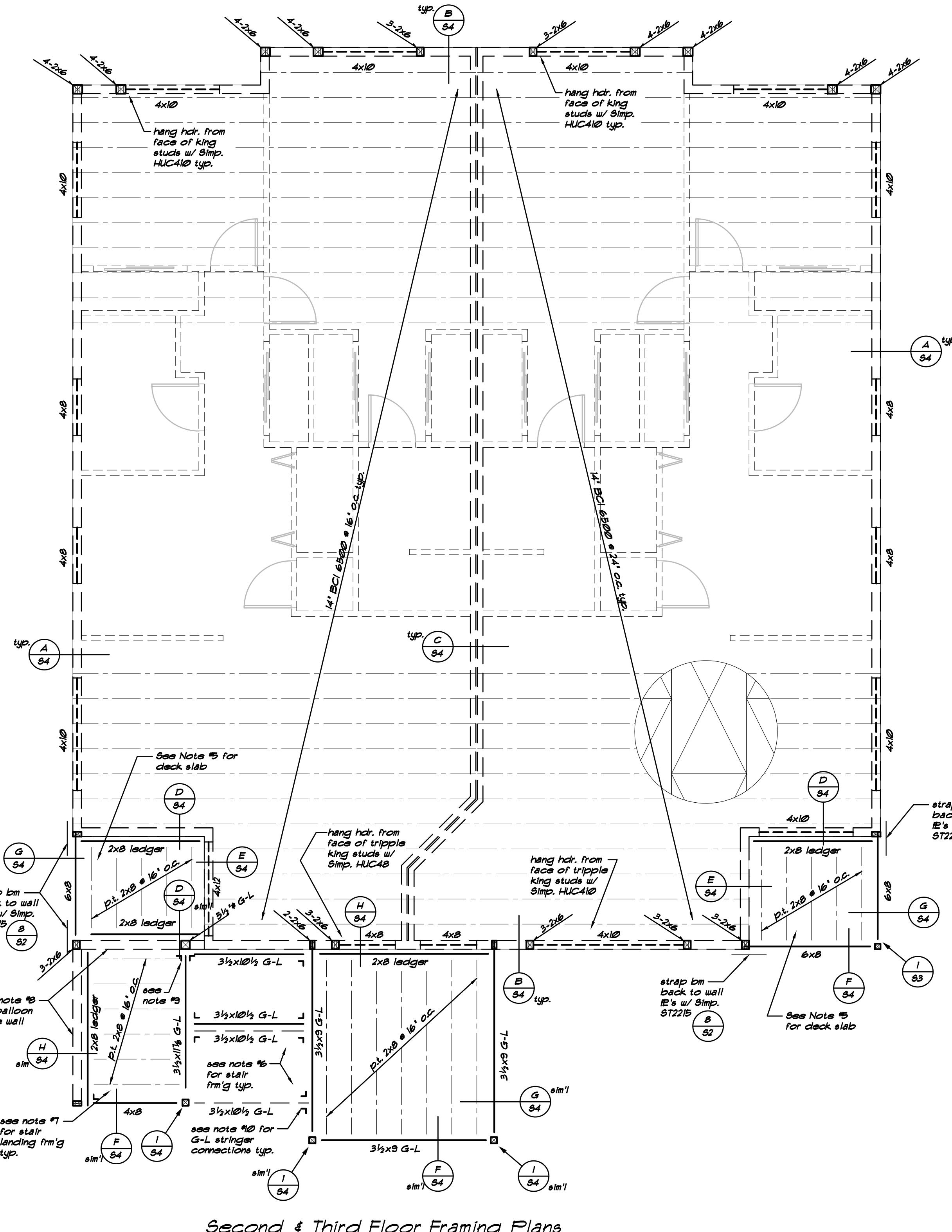
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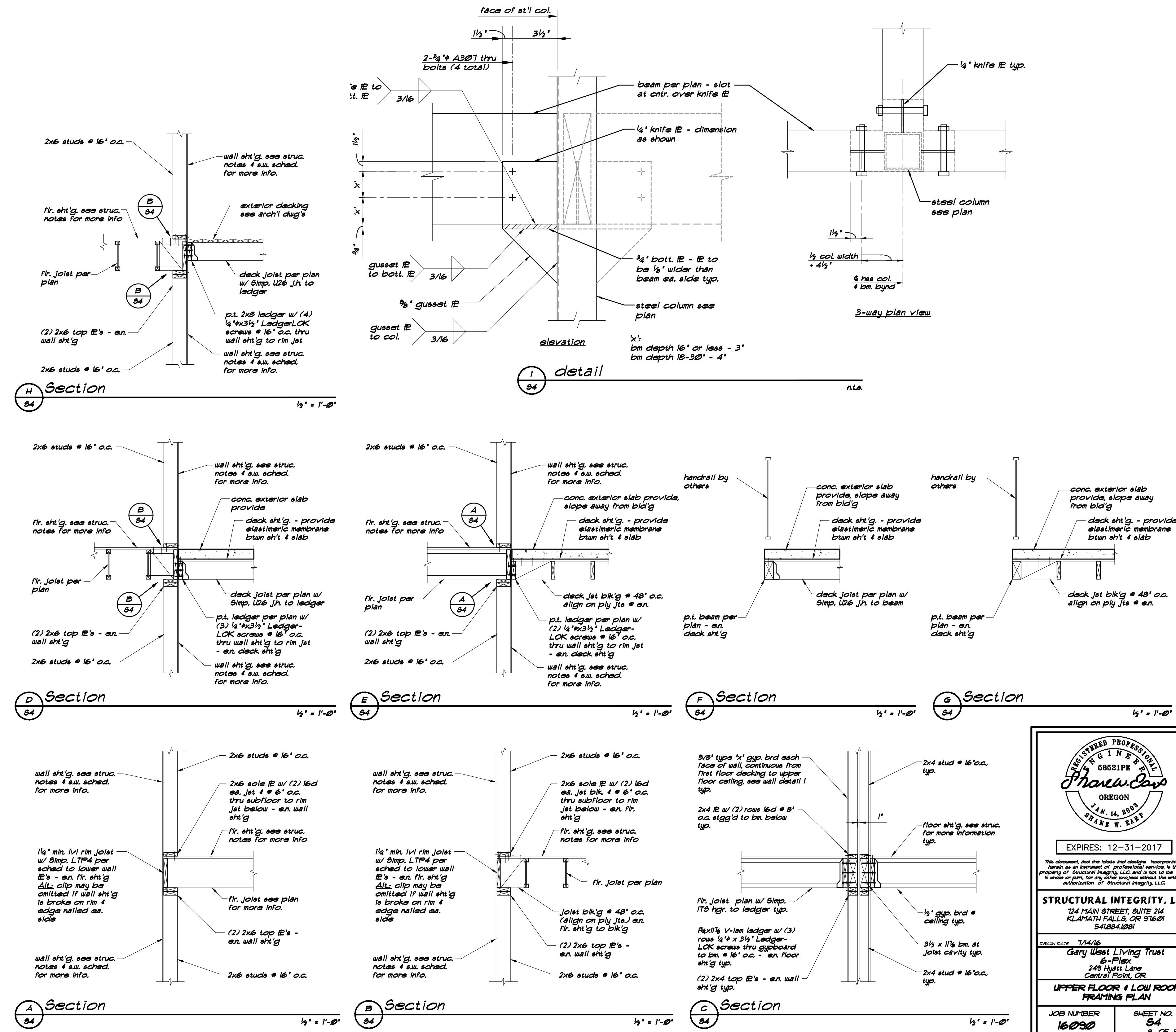
FOUNDATION & MAIN FLOOR  
FRAMING PLAN

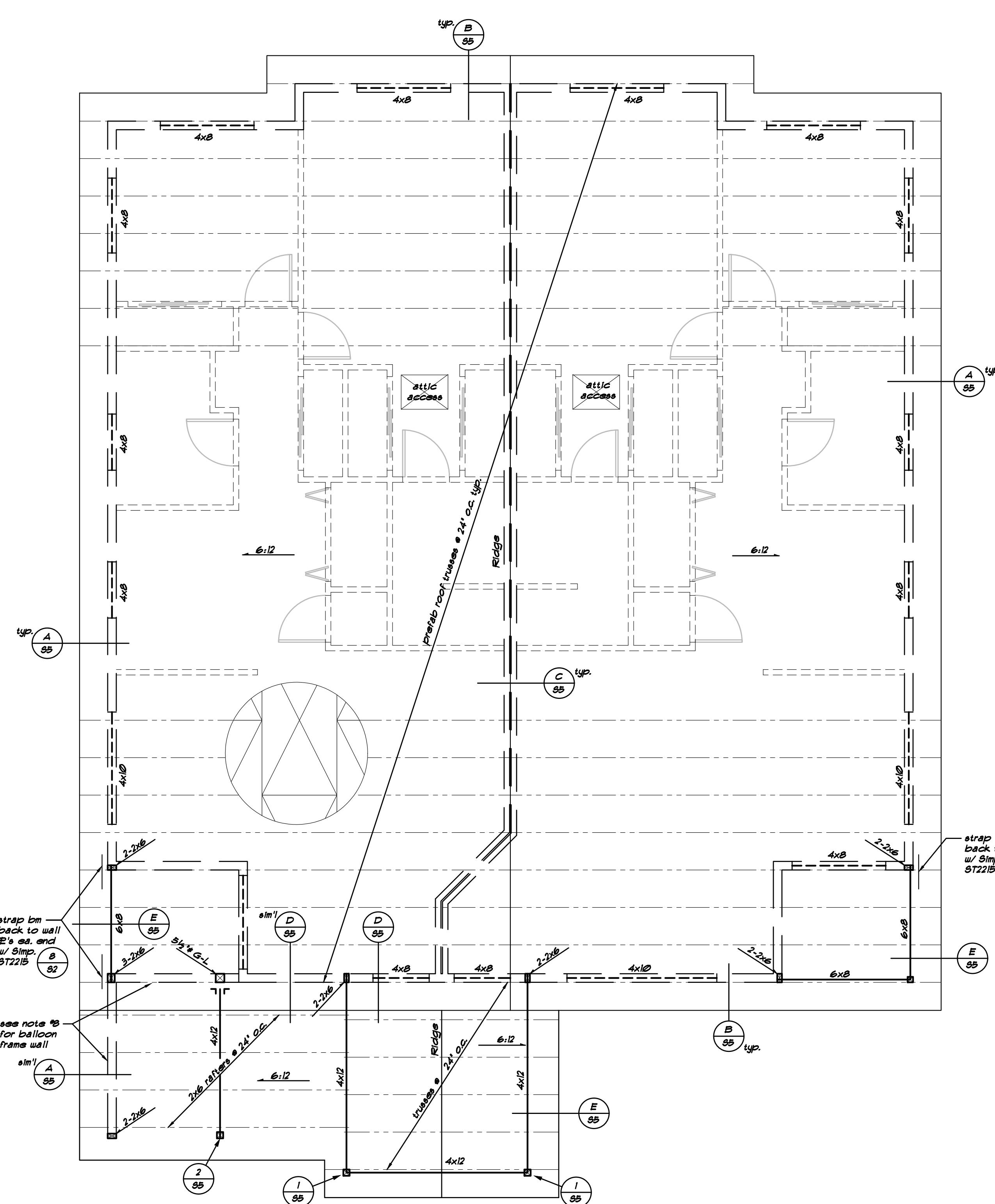
JOB NUMBER 16090 SHEET NO.  
B3 7 OF 10



#### Second & Third Floor Framing Plan Notes

- See sheet S1 for structural notes & S2 typical details.
- Details on these plans are intended to depict the general construction methods for this structure. Connections, details, and conditions not specifically shown that are similar to those that are specified shall be assumed on and the same. If questions regarding the application of details are encountered, notify the Engineer for clarification in a timely manner prior to construction.
- All exterior wood framed walls to be sheathed and nailed w/ 8d common nails at 6" o.c. edges, & 12" o.c. field nailing minimum, unless noted otherwise. Use 1/4" anchor bolts @ 48" o.c. w/ 7" min. embedment min. unless noted otherwise. Use 3x3x3/16" E washers to p.t. mud silt IE. See shearwall schedule for increased nailing and bolting requirements.
- indicates DF # post unless otherwise noted below the upper floor or low roof framing. See callout this sheet for size. Posts to extend thru top IE's to underside of beams where occurs. Clip posts that occur in walls to top & bottom IE's w/ Simpson A35 each side. All multiple stud posts shall be nailed together w/ (2) rows led @ 6" o.c. staggered.
- Use 4" n/w concrete slab w/ fibermesh reinforcing over 7/8" t/g sheathing. Provide elastomeric membrane between slab and sheathing. Membrane to extend up against wall sheathing 6" min. Handrails to be steel. Contractor to provide shop drawings to Engineer for review prior to fabrication.
- Use 3/8" glu-lam stringers as shown on plans. Use prefab concrete read material at stairs between stringers. Handrails for both stairs & landings to be steel. Contractor to provide shop drawings for handrails & treads to Engineer for review prior to fabrication.
- Use 2x8 DF # joist @ 16" o.c. for stair landing framing. Use 2x6 or composite decking w/ (2) fasteners min. per joist.
- Use 1½" x 5½" Veres stud @ 16" o.c. for walls indicated on plans. Use Simpson A35 clips from stud to p.t. below & top IE's above.
- Hang 3½" G-L deck beam thru exterior gypsum board to side of full height glu-lam post w/ Simpson HUC412-SDS.
- Hang stair stringers from landing and deck beams with Simpson HUCQ410-SDS with sloped seat. Fasten stringers that land on top of the landing and deck beams with Simpson HU240 heavy gusset angles.



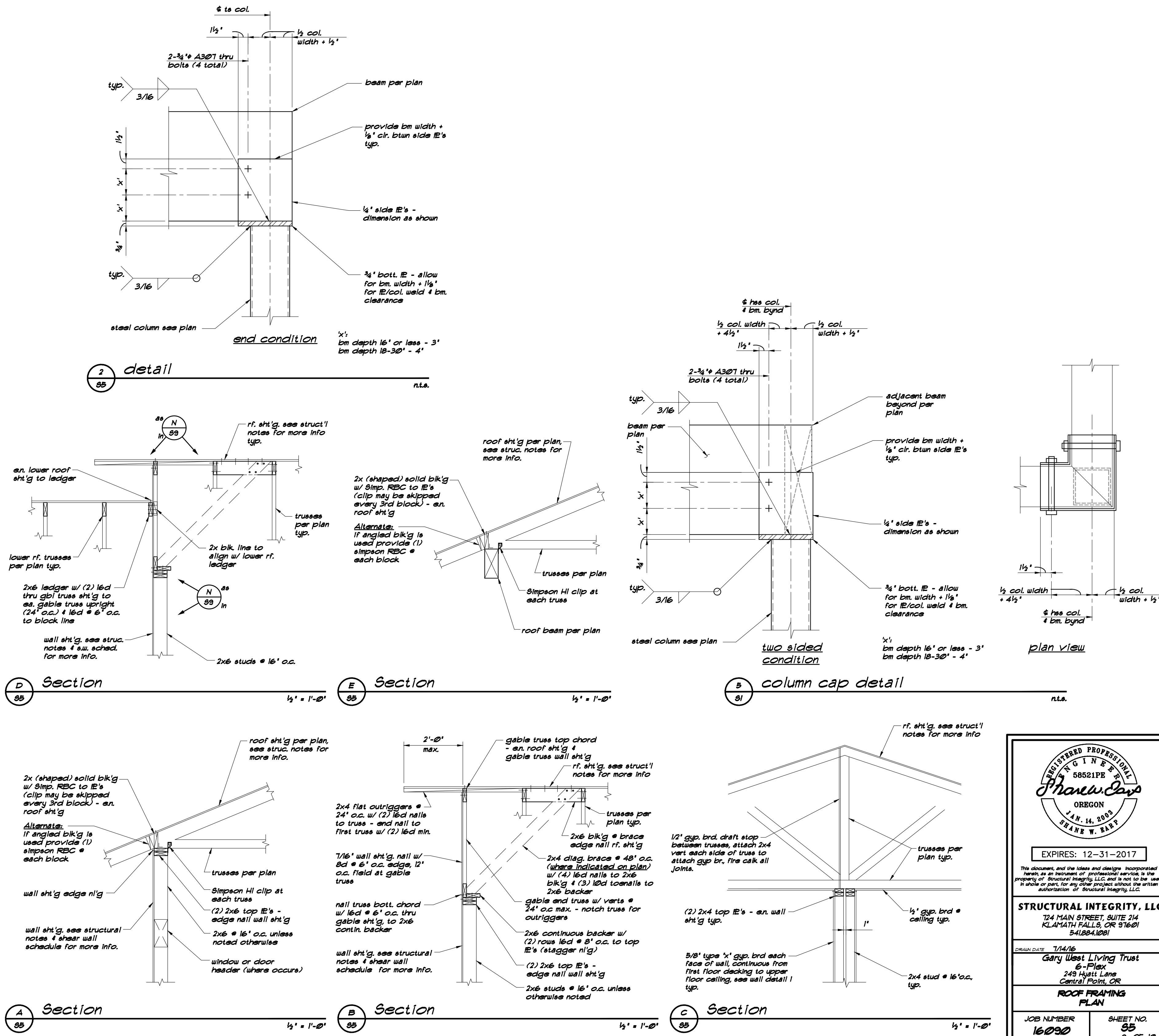


Roof Framing Plans

SCALE: 1/4"=1'-0"

Roof Framing Plan Notes

- See sheet S1 for structural notes & S2 typical details.
- Details on these plans are intended to depict the general construction methods for this structure. Connections, details, and conditions not specifically shown that are similar to those that are specified shall be assumed on and the same. If questions regarding the application of details are encountered, notify the Engineer for clarification in a timely manner prior to construction.
- All exterior wood framed walls to be sheathed and nailed w/ 8d common nails at 6" o.c. edge, 4" 12" o.c. field nailing minimum, unless noted otherwise. Use 1 1/2" anchor bolts @ 48" o.c. w/ 1" min embedment min. unless noted otherwise. Use 3x3x3/16" E washers to p.t. mud sill R. See shearwall schedule for increased nailing and bolting requirements.
- Indicate DF # post unless otherwise noted below the upper roof framing. See callout this sheet for size. Posts to extend thru top IE's to underside of beams where occurs. Clip posts that occur in walls to top & bottom IE's w/ Simpson A35 each side. All multiple stud posts shall be nailed together w/ 2 rows led @ 6" o.c. staggered.
- Use 1 1/2" Veranda studs @ 16" o.c. for wall indicated on plans. Use Simpson A35 clips from stud to p.t. below & top IE's above.
- Hang roof beam thru exterior gypsum board to side of full height glulam post w/ Simpson HUC410-SDS.



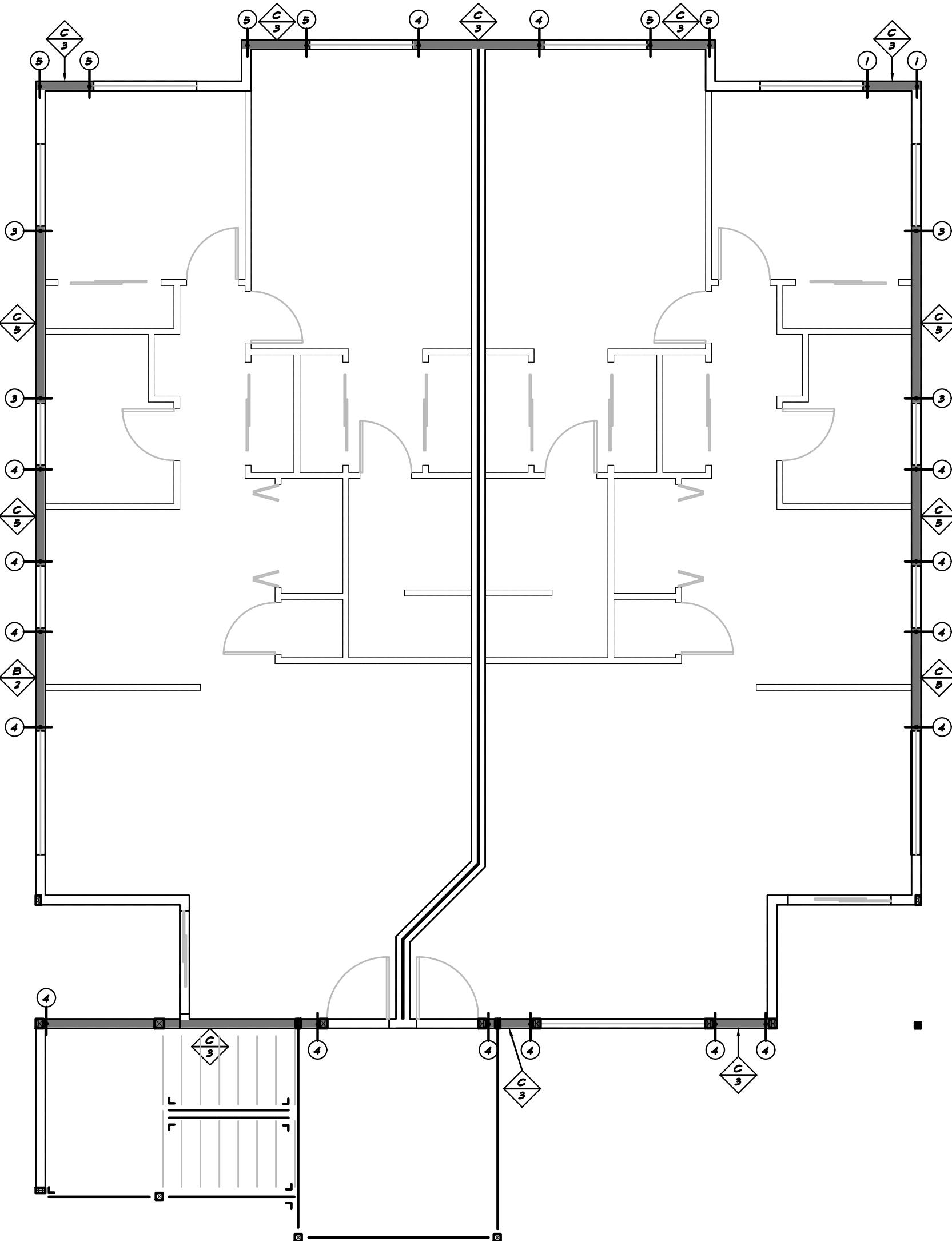
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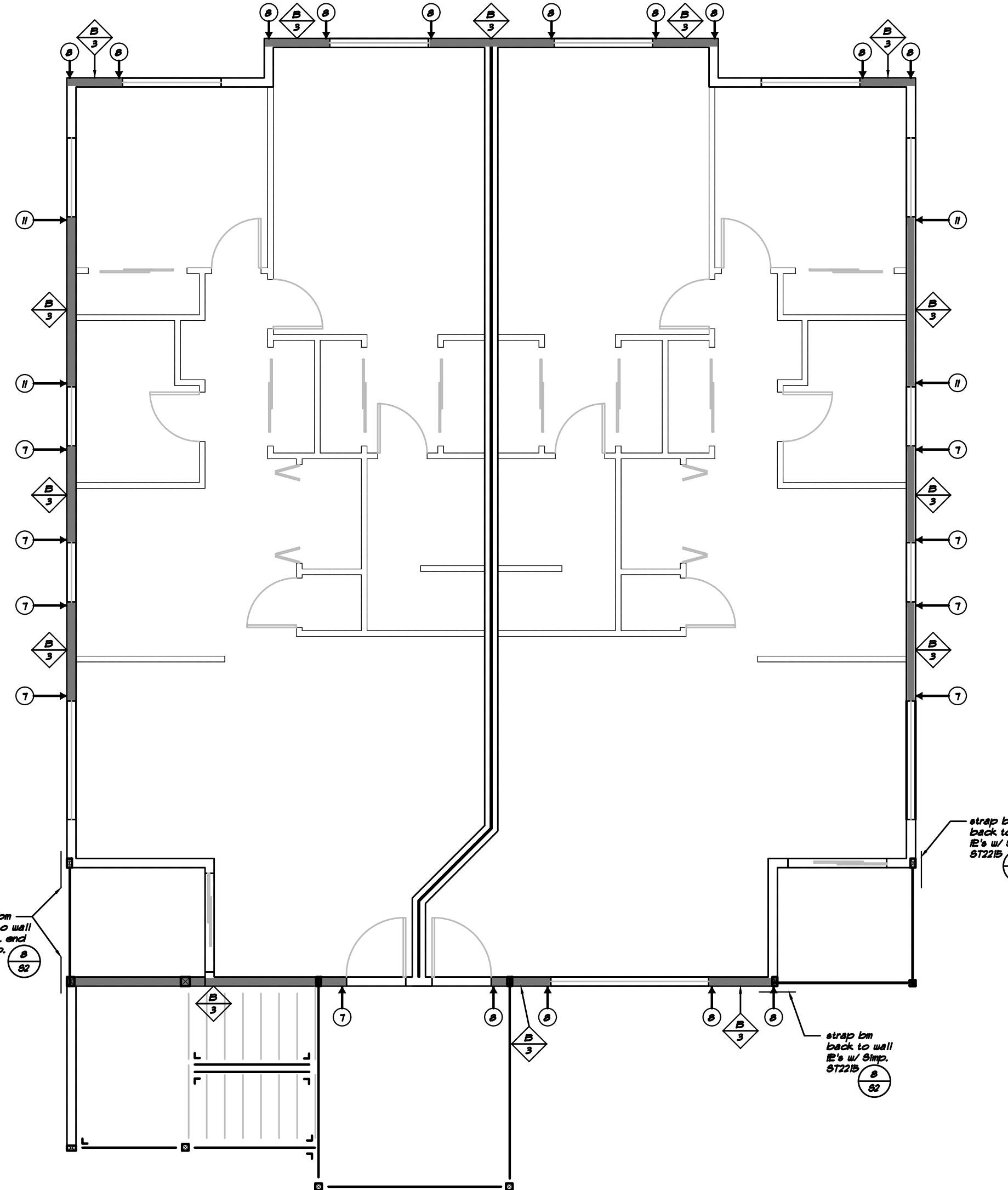
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ROOF FRAMING PLAN  
JOB NUMBER: 16090  
SHEET NO.: 85  
9 of 10



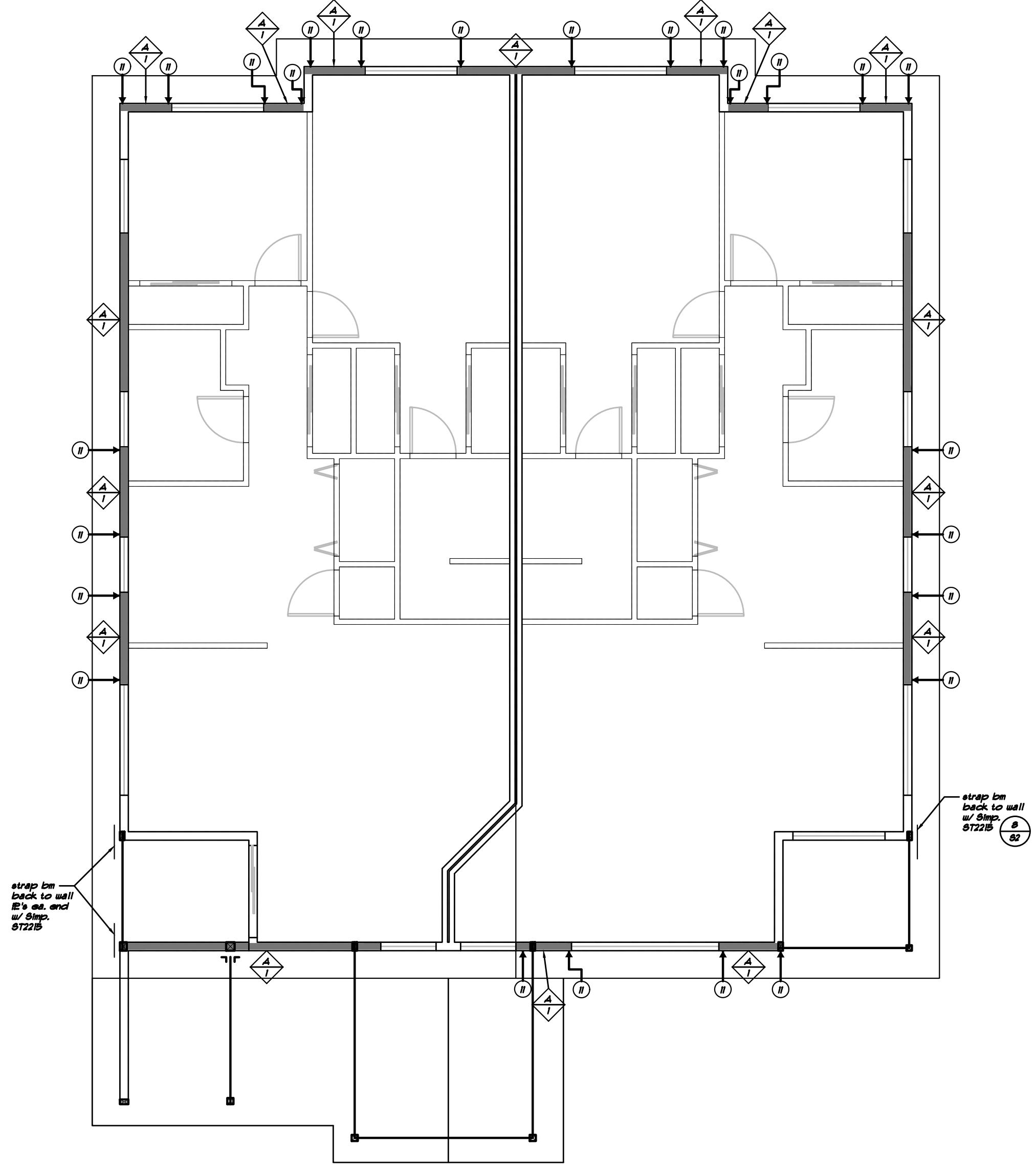
First Floor Lateral Plan

SCALE: 1/4"=1'-0"



Second Floor Lateral Plan

SCALE: 1/4"=1'-0"



Third Floor Lateral Plan

SCALE: 1/4"=1'-0"

### Lateral Bracing Plan Notes

- Refer to general structural notes on sheet 8.
- Details on these plans are intended to depict the general construction methods for this structure. Connections, details, and conditions not specifically shown that are similar to those that are specified shall be assumed on and the same. If questions regarding the application of details are encountered, notify the Engineer for clarification.
- All exterior wood framed walls to be sheathed with 7/16" OSB blocked w/ 8d common nails at 6" o.c. edge, & 12" o.c. field nailing minimum, see sheathwall schedule and lateral plan for other requirements.
- 
- Shearwall and holdown designations. See schedule on this sheet.
- Attach sole plate w/ (2) rows 16d @ 8" o.c.

SHEAR WALL			
WALL INFORMATION			
COMMON NAIL		8d BOX	
A	8d nails @ 6" o.c. all edges	4" O.C.	E
B	8d nails @ 4" o.c. all edges	3" O.C.	F
C	8d nails @ 3" o.c. all edges	NA	G
D	10d nails @ 3" o.c. all edges	NA	H

Shearwall nailing must be driven so that their head or crown is flush with surface of sheathing. Overdriven nails will not be allowed or counted as surface of sheathing. Overdriven nails will not be allowed as appropriate nailing!

FOUNDATION CONNECTION		RIM JOIST CONNECTION	
1	2x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 48" o.c.	1	Simpson LTP4 @ 30" o.c.
2	2x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 32" o.c.	2	Simpson LTP4 @ 20" o.c.
3	2x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 24" o.c.	3	Simpson LTP4 @ 16" o.c.
4	2x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 16" o.c.	4	Simpson LTP4 @ 14" o.c.
5	2x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 12" o.c.	5	Simpson LTP4 @ 12" o.c.
6	3x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 48" o.c.	6	Simpson LTP4 @ 10" o.c.
7	3x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 32" o.c.	7	Simpson LTP4 @ 9" o.c.
8	3x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 24" o.c.	8	Simpson LTP4 @ 8" o.c.
9	3x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 16" o.c.	For rim joist condition 9 and 10 see details	
10	3x plates, 1/2" x 12" ab. w/ 3/16" x 3/8" washer @ 12" o.c.	If wall sheathing is joined at center of rim joist rim joist connection is not required	

①	HOLDOWNS	ANCHOR BOLT	POST	▼	STRAPS	FASTENERS (total)	END LENGTH	POST
①	Simpson HDU2	8d16	(2) 2x	⑦	Simpson MST37	(20) 16d	9 1/2" min.	(2) 2x
②	Simpson HDU4	8d24	(2) 2x	⑧	Simpson MST48	(32) 16d	15" min.	(2) 2x
③	Simpson HDU5	8d24	(2) 2x	⑨	Simpson MST60	(46) 16d	21" min.	4x
④	Simpson HDQ8	8d28	(3) 2x	⑩	Simpson MST72	(56) 16d	27" min.	4x
⑤	Simpson HHDQ11	1"	6x or (4) 2x	⑪	Simpson CS16	(28) 8d	14"	(2) 2x
⑥	Simpson HHDQ14	1"	6x	⑫	Simpson CM8T14	(14) 16d	34"	4x

notes:  
1. ab. studs shall be laminated together with 16d nail at 6" o.c. full height (typical).  
2. provide holdowns minimum 6" from each end of shear wall.  
3. provide (2) additional 8d clews with standard hook at each ab. location.



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LATERAL PLANS &  
SHEARWALL SCHEDULE

JOB NUMBER  
16090  
SHEET NO.  
86  
10 OF 10